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NC State vs Clemson (10/27/1973)

Clemson University

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CLEMSON



The N.C.
State Game

State
Government
Day

Clemson Memorial
Stadium
Clemson, S. C.

October 27, 1973
1:30 p.m.



\$1.00

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Jim Burns, Charles Haralson, Vince Ducker, Ben Hendricks, Jim Martin, Tom Shockley and Hal Smith of the Clemson University Communications Center. Jim Laughead and Jim Bradley of Laughead Photographers, Dallas, Texas. Clemson TAPS Photography Staff.

COVER

We don't expect to have a prettier subject on our covers this year than the one for this game. Clemson is proud of Miss Fran Jean Riggins, who is the reigning Miss South Carolina. Fran Jean is a Clemson coed from Easley and she is footballish on the Tigers. COVER PHOTO BY GEORGE GARDNER OF THE GREENVILLE NEWS

IMPORTANT ANNOUNCEMENTS

EMERGENCIES: A first aid station is located under Section A on South side of Stadium. Trained nurses are on hand all during the game. Should a doctor be needed, ask any usher. Each usher has been informed the seat location of doctors. Ambulances are located at Gates 2 and 10.

TELEPHONES: Telephones are located at Stadium Ticket Offices at Gates 1, 5, 9, 11 and 13.

PUBLIC ADDRESS SYSTEM: The public address system is intended primarily for the information of spectators concerning the game. Please do not request the use of the public address system to make social contacts at the game.

RESTROOMS: Ladies' and Men's Restrooms are located beneath the stands and can be reached by exit from any portal.

LOST & FOUND: If any article is lost or found, please report same to Gate 1 Information Booth.

CONCESSION STANDS: Concession stands are located beneath the stands and can be reached by exit from any portal. A concession price list is published on the back page.

EMERGENCY CALLS: Emergency calls are received over the telephone located in the press box, the number of which is listed with the operator as Press Box, Clemson Memorial Stadium.

NOTICE: Possession or consumption of alcoholic beverages are prohibited by Act No. 550 of the General Assembly of South Carolina, 1967, and rules of the Alcoholic Beverage Control Commission in this stadium and the surrounding area. By order of: S. C. Alcoholic Beverage Control Commission.

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A Partnership with the People

Today climaxes a very busy and informative "Government Weekend."

Clemson University is proud to join in partnership with the South Carolina Textile Manufacturers Association, the Textile Hall Corporation and the legislative delegations from Anderson, Greenville, Oconee, Pickens and Spartanburg counties in having as special guests this weekend the South Carolina General Assembly, the South Carolina Congressional Delegation, and the South Carolina Constitutional officers, and their ladies and guests.

Both guests and hosts have focused their attention on the most basic needs of people: food, clothing and shelter.

A highlight of the weekend was a visit Friday to the largest textile show in the nation's history: The American Textile Machinery Exhibition-International at Textile Hall in Greenville. With more than 350 exhibits on display in the 11-acre "showroom," the latest developments were unveiled by leading textile machine builders from 17 nations. The show, which draws world-wide attention for its advanced textile technology, is attracting textile executives from more than 50 countries.

The presence of these distinguished guests on campus underscores and symbolizes a significant fact: Clemson University stands arm-in-arm with local, state and national governments, business, and industry in alleviating some of the enormous problems facing us today and in the decade ahead, and in seeking a new and better world for all mankind.

Last evening in Littlejohn Coliseum this group was given a brief look at Clemson University today — its education, research and public service programs that touch people's lives every day throughout the state and region.

That introduction conveyed something of the true Clemson spirit, a spirit that stresses *people*, not programs; quality of endeavor, not quantity of endeavors; excellence, not bigness; and efficiency, not expediency in use of resources.

This has been Clemson's mission for the past 80 years, a mission made possible by the dedicated concern for and generous support of the University by members of the General Assembly, the S.C. Delegation, leaders at all levels of government, and the people of South Carolina.

As a state land-grant University, Clemson is above all a people-oriented institution, aware that without them it has no mission and without their strong support, no means for accomplishing that mission.

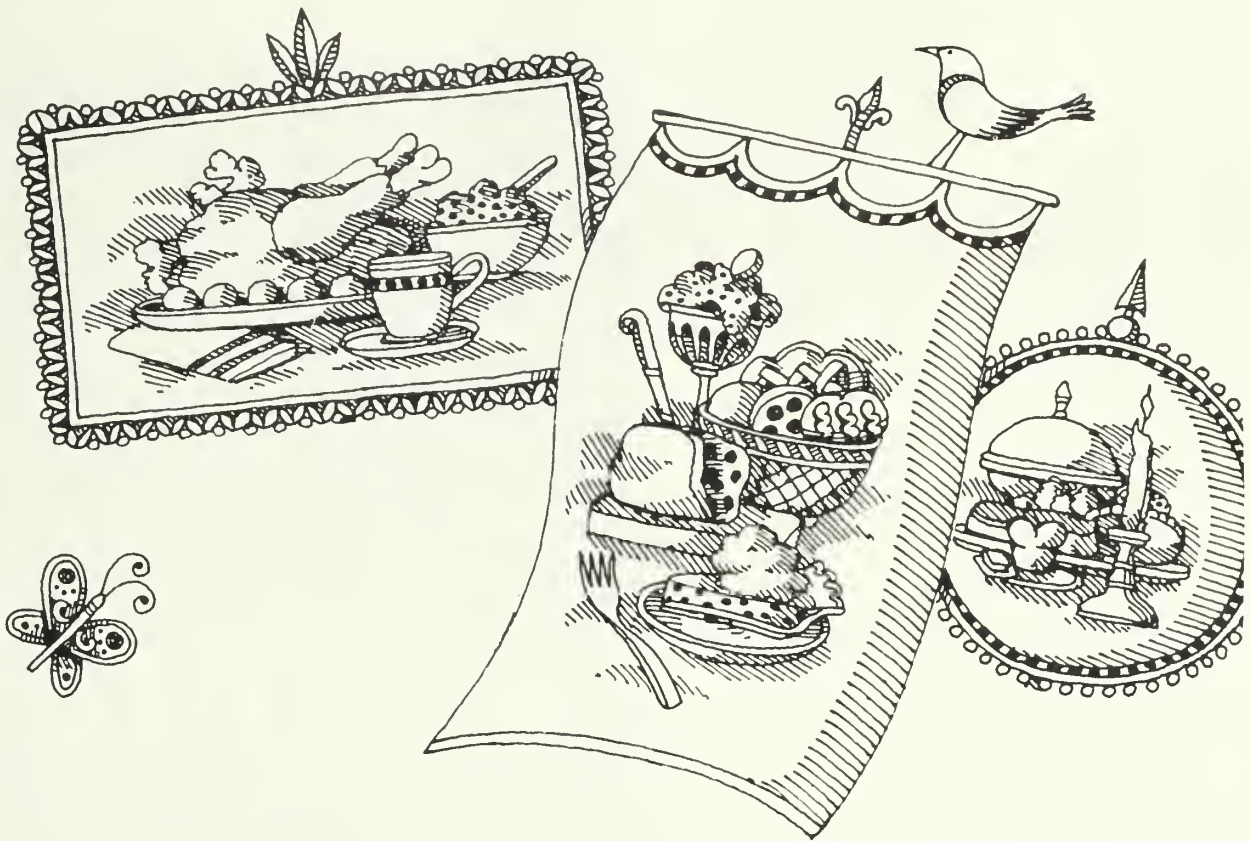
People need better health care services and medical advances, better housing, better jobs, better nutrition. People need stronger educational systems, new sources of energy, better industrial and economic technology, protection from environmental pollution, and better programs of higher education to give them essential career skills, as well as programs of continuing education to help them constantly re-tool those skills in a world that refuses to stand still. Above all, people need a better understanding and participation for their traditions and culture, for the complex socio-economic and political problems confronting them, and for their own potential for self-fulfillment at all ages.

It is people who have these needs, and it is these people whom Clemson University, with strong public and private support, is dedicated totally to serving.

Join in extending a warm welcome to these special men and women in making their stay here a memorable one.

CLEMSON UNIVERSITY



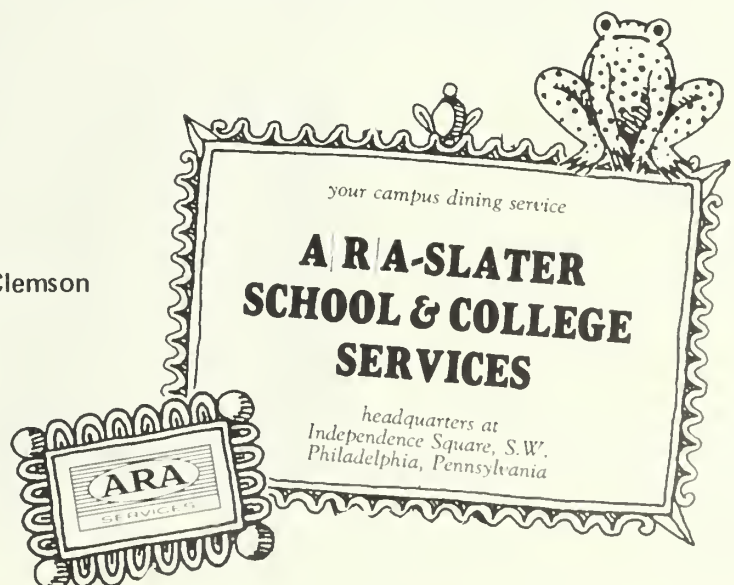


ARA-Slater's philosophy is a unique, systematic approach designed to achieve our most important goal: *STUDENT SATISFACTION*. This concept is a result of our experience with millions of students. We have the flexibility to understand your needs and the capability to satisfy them.

At Clemson, ARA demonstrates practical, new methods for providing nourishing, well-balanced meals to athletes, students and staff. Our corporate and regional specialists give ARA's dining service manager expert advice in planning menus, purchasing goods, controlling waste, utilizing labor. The support of this team effort is carried out daily in Schilleter Hall and Harcombe Commons, and at the Clemson House Buffeteria. It is our desire

to serve students what they want and to accommodate them by providing this same efficient service for special events or festive holiday meals.

We're here to provide the type of service that will benefit the entire school and community. *THAT'S WHAT WE THINK A DINING SERVICE IS ALL ABOUT.*



A Traveling Bunch of Tigers

It seems like only yesterday that a lean 190-pound freshman from Slatington, Pa., was going through the motions of his first day of college football practice. And on that same practice field, just a few hundred yards away, stood three proud individuals—Karl, Jean, and Jeff Andreas.

Yes, they were proud all right, because Karl, Jr., or Butch, as they call him had received a football scholarship to attend Clemson, a southern university located in a small but beautiful town, with a campus blessed by the kiss of Mother Nature.

Prior to that hot August day, the Andreas family from Slatington had made very few trips south, much less to Clemson, South Carolina. But by the end of this fall, which brings to a close the grid career of Karl, Jr., as a Tiger, Governor West just might give the family a key to the State of South Carolina, put their picture in the upper corner of the state flag, and send them a dozen palmetto trees for Christmas. Because since that day in August of 1970, the Andreas' have put more than 50,000 miles on their automobile to watch their number one son don the orange and white.

That's right. And 50,000 miles is a lot of driving, especially when all have been put on that same Kingswood Estate Chevy wagon. But it's easy to see how the mileage could accumulate since it's exactly 700 miles from Slatington to Clemson. Wow! That's 1400 miles for just one trip to Tigertown.

With only five games on the schedule that initial year of 1970 when Karl, Jr., was a freshman on the Cub squad, the Pennsylvania clan made but two trips to Clemson, to see the Cubs blank Duke and Wake Forest by scores of 40-0 and 33-0 respectively.

Well, since that first season, Papa Andreas, Mrs. Jean Andreas, and Jeff, Karl's younger brother, have worn the highway between the two points, although Jeff, on occasions, has missed the trips because of his participation in junior varsity and varsity football.

In 1971, the family saw the Tigers take the field nine times, missing only the Georgia Tech battle in Atlanta and the Auburn clash in the valley of the War Eagle. Then a year ago, Butch's junior season, Karl, Sr., who works at



Jean and Karl Andreas beside their trusty station wagon which has brought them to so many Tiger football battles.

Bethlehem Steel, took his entire 13 weeks of vacation time during the grid season, and both he and his wife were in the stands all of Clemson's 11 encounters, which included trips to Houston, Tex., and Norman, Okla.

But what is really the true indication of what type fans these Quaker-staters are, is that they have seen Clemson's annual Orange-White game, which comes each spring, for the past three years, and they have made four different trips to Sumter to see but one actual road Orange-White encounter. A year ago, the first date for the Sumter battle was postponed because of snow, pushing the game up one week, and this season, both games were rained out. But that didn't stop the Andreas' as they were in Sumter on four separate occasions. They would have stopped off in Clemson but failed to get word of the cancellation.

They've already seen the first six games this fall and are on hand today for the Tiger-Wolfpack clash.

Plans call for another appearance next Saturday when Wake Forest comes to Clemson and then to Chapel Hill two weeks from today. The final trip to Clemson comes Nov. 17 for Maryland and finally to Columbia to see Butch play his last Clemson game, this one against South Carolina.

That will give them 39 trips south, including the three "duds" on the spring game.

Too bad the "automatic pilot" for cars wasn't perfected before now for the benefit of the Andreas'. But that bit of engineering drag hasn't kept them at home.

They're truly a traveling bunch of Tigers.



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PAUL VELLANO



MIKE BOMGARDNER



MARK DICARLO



DICK AMBROSE

KEN PENGITORE, Clemson Quarterback: It's obvious that athletic competition requires a combination of ability as well as physical and mental dedication. It's also a combination of mental attitude and the desire to be the best athlete that you can possibly be. In a physical respect, training is extremely important. In order to compete, the athlete must push himself beyond his limit. But for a quarterback, I feel that the mental training may be the most important part of the game. He must know the offensive strategy so well that he is like an extra coach on the field. And he must know the opponent so well that he can properly adjust to its changes. With the proper overall training, you will have confidence in yourself. This self-confidence will reflect on the team and this will make your teammates have confidence in you. As a quarterback, you must have the right combination of mental and physical training, and you must believe in yourself and have confidence in your ability.

FRANK HARSH, Wake Forest Fullback: Football, perhaps more than any other sport, requires a great deal of discipline. It takes a very special person to play the game. It takes a person who is willing to dedicate a tremendous amount of time and effort to achieving a goal. It takes patience, self-control, and above all, hard work. Both the game itself and the coaches I have been fortunate enough to be associated with have taught me the value of teamwork and self-discipline. I have also learned to let this discipline work to my advantage off the field as well. Before a game, I try to stay calm and let nothing bother me. A prayer helps ease my mind. But, it's all worth the hard work when you walk off the field knowing you've done your share and contributed to the team.

BRIAN KRUEGER, N. C. State Defensive End: The discipline which I have to apply to myself is more complex than it is for most athletes. I'm a full-time student and football player, but on top of that, I'm married and last summer had knee surgery which required some extra attention. I have learned that I have to study or I'll never get to play football, yet during the season, there are times that football has to come first. Organization is the key. Getting the most out of the limited time available takes work and planning. For example, by using even the few minutes between classes to review my class notes, I have found that I save time later when I have to study for an exam. It has been my experience that I can make time for anything I want to do. And football is something that I make time for through planning and self-discipline, not just on a day-to-day basis, but with a long range plan in mind, too.

PAUL VELLANO, Maryland Defensive Tackle: For me, it was a case of making up my mind to do it. The off-season between my sophomore and junior years, Coach (Jerry) Claiborne suggested that I take off 40 pounds. He said the weight reduction would make me a better player. Coach Claiborne made such a great impression on me, so I just made up my mind to drop the pounds. I lost the weight between February and August. It took a lot of exercise and food-watching. I had to learn to pass up banana splits. The reputation of Coach Claiborne, the unity of the team, and the interest that a lot of people, who were close to me had in me, were big factors in being able to keep myself on the diet and lose the weight.

MIKE BOMGARDNER, Duke Fullback: Before each season I set up a challenging goal that I hope to achieve through hard work by season's end. After this initial step, I define the means of achieving my goal and then discipline myself to successfully fulfill my obligation to myself and more importantly to the team. My goals for this season are an ACC Championship and a bid to a major bowl game. Since both of these goals depend on total team victories, I feel the best way to achieve them is to maintain an unselfish attitude both on and off the playing field. At all times, my fundamental concern is to give all of myself, both physically and mentally, to improving the team game. If all of our players do this, I feel that our individual talents will blend together to produce the team victories needed for success.

DICK AMBROSE, Virginia Linebacker: I feel that discipline, and in particular self-discipline, is essential for success in athletics. To discipline oneself for athletics is to combine a total mental and physical effort towards a predetermined goal. This is the philosophy I try to follow closely both on and off the field, for you must discipline yourself for life as well as athletics. Physical ability is the basis for an athlete's potential to succeed. A player must be in top shape to compete with others. Once you have physically disciplined yourself for athletics you then must concentrate on giving yourself the proper mental attitude that it takes to play to win. It takes desire and willpower to stay with any conditioning program and this willingness to work hard is the real test for any athlete. If the proper mental attitude is there the rest will fall into place.

MARK DICARLO, North Carolina Linebacker: First of all, I think you must realize how very essential it is to have discipline in athletics. That's the first step. Once you've done that, then lay down some rules for yourself. Learn to ration your time so that you can devote ample time to academics, some to athletics and some to social life. Discipline really begins in the family. I feel I had learned the lessons before I came to college. Now I try to follow the rule of disciplining myself throughout the year — not just in football season. It's a great deal easier if you do it that way.



KEN PENGITORE



FRANK HARSH



BRIAN KRUEGER

The N. C. State Series

It's quite conceivable that today's two head coaches, Red Parker of Clemson and Lou Holtz of N. C. State, were cut out of the same mold.

Each possesses a dynamic personality, each makes a solid impact wherever they go, both are terrific motivators, each has proved they can take a "dead football program" and put life into it at various schools, and even though each is small in size, this did not keep either from playing high school and collegiate sports with the "big boys."

Parker and Holtz like the same type of football—wide open offense, hard-nosed defense and 11 hundred percenters on the field at the same time.

Down through the years these two coaches have exchanged ideas from time to time, and if both teams had on the same color uniforms today, it might be hard to tell one from the other because their style of play is so similar.

Holtz had a one year start on Parker at their respective schools and there's no doubt that Holtz found some pretty good material when he came to Raleigh before the 1972 season and he turned the Wolfpack 180 degrees from the year before, going from a 3-8 season to an 8-3-1 and a Peach Bowl victory over West Virginia.

The 36-year-old Ohio native didn't change gears when the 1973 season opened and his Wolfpack comes into today's game with a 4-2 record, with three victories (Virginia, Maryland and North Carolina) being against Atlantic Coast Conference competition and the other triumph over Southern Conference opponent East Carolina. His two losses have come from recognized powers at Georgia and Nebraska.

Parker accepted the Clemson coaching job last December and in the spring, put the veer offense into the Tiger attack. After an unimpressive win over The Citadel, Parker sent his team against three pretty fair outside opponents—Georgia, Georgia Tech and Texas A&M—before getting his initial taste of Atlantic Coast Conference competition against Virginia, which he weathered, but not without a struggle.

The two teams have met a pair of common opponents. The Tigers lost to Georgia, 31-14, and State was surprised by the Bulldogs, 31-12, each game being played "between the hedges" in Athens. The Wolfpack climbed on Virginia, 43-23, at home and Clemson edged the Cavaliers in Death Valley, 32-27, coming from a 13-point deficit twice.

The Tigers and 'Pack have been playing football against each other for a long time. They first met in 1899, and down through the years have met 41 times, with Clemson holding a decided 28-12-1 edge, but six of the State victories have come in the last 13 games, with the 'Pack winning last year in Raleigh, 42-17, and the year before at Clemson, 31-23. The Tigers last win came on regional television in Raleigh in 1969 when some heroics in the last two minutes pulled out a 24-19 victory.

With each team possessing some pretty good ponies in the stable, this should be another offensive show today. In the last six games the two teams have averaged scoring over 40 points between them (State 21.3, Clemson 18.8).

The Death Valley real estate could get a thorough plowing today from promoters such as Smiley Sanders, Willie Burden, Jay Washington, Stan Fritts and a few other buddies.

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PROGRAM

Pre-Game 1:15 p.m.

CLEMSON UNIVERSITY TIGER BAND

Tiger Rouser: SOCK IT TO 'EM (Fillmore)
TIGER RAG (Arr. Yoder)

Presentation of Colors: TATTO (Arr. Holcombe)
Clemson University Army Honor Guard
Commanded by Cadet Capt. John Hames

Prayer: Jimmy Williamson representing the Fellowship of Christian Athletes

NATIONAL ANTHEM (Arr. Damrosch-Sousa)

Retirement of Colors: THIS LAND IS YOUR LAND (Arr. Warrington)

Tiger Rouser Reprise

Game 1:30 p.m.

CLEMSON UNIVERSITY vs. NORTH CAROLINA STATE UNIVERSITY

Game Announcer: Chuck Heck

For the Clemson Band: Nick Peck

Halftime

CLEMSON UNIVERSITY TIGER BAND

Entrance Drill: PROCESSION OF NOBLES
from the opera "Mlada" by Rimsky-Korsakov (Arr. Swor)

Sequence Drill: THE STARS AND STRIPES FOREVER (Sousa)

Feature: TALK TO THE TREES from the Broadway musical
"Paint Your Wagon" by Lerner and Loewe (Arr. Trayler)

CLEMSON UNIVERSITY ALMA MATER (McGarity-Hawkins)

Exit: TIGER RAG (Arr. Yoder)

MEET . . . AL MURRAY

CLEMSON'S VETERAN
OFFENSIVE GUARD



Al Murray is making the most of his college career. While studying for his academic degree at Clemson, he is also preparing to fulfill his military obligation as a commissioned officer in the U. S. Army. Al is enrolled in the course that trains him to be a leader.

ARMY ROTC

"Al came to Clemson from Tampa, Fla., and has developed into one of the most consistent performers on the Tiger offensive line. A year ago he lettered as a tackle but was switched to the guard spot this season. Al is one of the married players on the 1973 squad, and when he's not spending time on the football field, he can usually be found at home with his wife, Jessie.

BUT a student at Clemson University does not have to be a varsity athlete to get more from his college experience than an academic degree. Army ROTC at Clemson University provides an opportunity to make a college education a degree better by obtaining a commission as a second lieutenant in the United States Army upon graduation.

Welcome to Clemson University

Welcome to Clemson University and to an afternoon of football in "Death Valley." It is always a pleasure to have you on the campus and to know that you share with us the sense of pride which we have for all the young athletes who wear the uniform of the Clemson Tigers. Their hard work and dedicated effort, as they prepare each week for Saturday's game, reflect what we feel is the true spirit of all Clemson students as they strive to attain the goals which they have set for themselves.

A commitment to excellence not only in the classroom and the laboratory but also on the playing field and in the athletic contest is in the finest tradition of Clemson University.

It is a commitment which was first made for us by our founder, Thomas Green Clemson, who almost a century ago saw the great need in this state for a scientifically oriented institution of higher learning to provide our young people with the training which was needed to build a better society. From then until now Clemson students have been challenged to do their best in whatever task they were engaged.

As the years have passed the scope and mission of Clemson's service to the state and the nation have been enlarged. Institutions like individuals do not stand still. We are now engaged in teaching, research, and public service in those areas most often associated with a land-grant university actively seeking to meet the needs of the people it serves. As those needs have varied or changed we have adjusted our capabilities for service.

Today Clemson University is in the strongest position to serve the citizens of this state and nation and the people of the world that it has ever occupied. Our undergraduate programs are of the highest quality. In our graduate studies and research efforts we have made significant progress within the last twenty years. And we are now engaged in greatly expanding our ability to meet the continuing educational needs of the adults in our society. To this end and with the aid of a very generous appropriation which was authorized by the General Assembly we are preparing to erect very shortly on this campus a Continuing Education Center which will give us superb facilities for educational programs specifically designed to meet the needs of all adults who want to prepare themselves to serve better wherever they are and whatever they are doing.

One of the strongest bonds which has served to unite all of us who are Clemson supporters has been our common interest in the success of our athletic teams. For many of us this interest is but an outward and visible symbol of a deeper love and affection which we have for the entire University and all that it stands for in our lives and in the world.



President Robert C. Edwards

A handwritten signature in dark ink, reading "R. C. Edwards". The signature is fluid and cursive, with a large, stylized "E" at the end.

Robert C. Edwards
President

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IPTAY--

Special Recognition

The Clemson IPTAY Club surpassed its membership goal for 1972-73, and for the ninth straight year, an increase was seen in funds contributed to the club.

With a goal set for \$565,000, the final tally read just over \$579,000, or 102 per cent of the goal. This marked the second straight year that over a half million dollars had been realized by IPTAY.

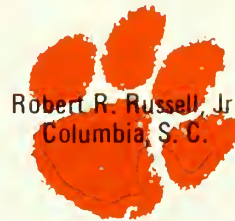
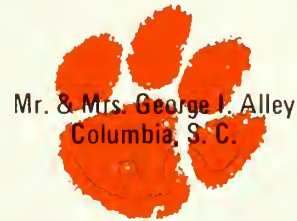
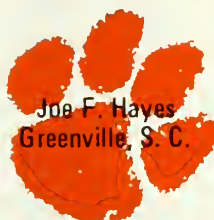
Several thousand former Clemson student-athletes, as well as several hundred currently enrolled at the university, depend

solely on contributions from individuals and firms for their education. Every penny received by IPTAY since its beginning in 1934 has been used for athletic scholarships only.

Clemson has set an outstanding example for other educational institutions throughout the nation with its IPTAY program. It is probably the finest collegiate booster club in America today.

On the following pages, we have listed those people and business organizations who are being recognized for their interest and continued support of IPTAY.

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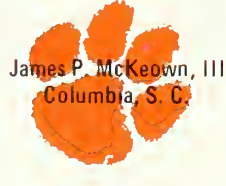
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Red Parker, Head Football Coach



"I promise you that I'll leave no stone unturned, and that I will leave no avenue unexplored, in an attempt to put this program over the top and in a way that Clemson fans, alumni, students, and the guys who get out there and do the sweating deserve. As far as I'm concerned, there's only one way to go -- and brother, that's to win. And we're going to get after that winning."

It was last December, the 5th to be exact, when Jimmy Dale "Red" Parker uttered those words before a large gathering at the Clemson House. Because it was that day that the smiling red head from Hampton, Ark., was named as the Tigers 19th head coach.

But although the move to this beautiful campus in the northwestern part of the State of South Carolina was a new stop for him, Parker is not a newcomer to the head coaching ranks. In his 20 previous years of his successful coaching career, he has never served as anything less than a head mentor.

In 1953, following graduation from Arkansas A&M, where he earned three letters each in football, baseball, and track, Parker began his illustrious career, at the age of 21, at Fordyce, Ark., High School.

Before assuming the reins at Fordyce, the Arkansas school had dropped 22 games in a row. But when the dynamic red head had completed his eighth, and final, season in the prep ranks, Parker's achievements included a 37-game winning streak, three championships, and a won-lost mark of 75-12-4.

He was named head coach at his alma mater in 1961, where he stayed through the 1965 season, and saw Arkansas A&M post a five-year record of 29 wins, 19 losses, and two ties. But his last three campaigns were his best as the school claimed two conference titles and had a won-lost record of 24-5-1.

Parker's third head coaching position came at The Citadel -- The Military College of South Carolina. In his initial campaign, 1966, the Bulldogs battled through a 4-6 season. But in only his second year, 1967, The Citadel recorded more wins (5) than any other Bulldog team had managed since the 1961 unit went 7-3 on the year.

Then in 1968, Parker inserted the famed "Citadel Veer" offense. He refined and worked with that potent offense until it reached almost total perfection in 1971. That season, the Bulldogs amassed 5,030 total yards, which ranked The Citadel fourth in the nation in that department, scored 366 points, and posted a 8-3 record.

But with the close of the 1972 grid season, a seven-year stint at the small military college, which saw Parker instill fear in his opponents and record an overall mark of 39-34 with the dreaded "Citadel Veer," also came to a close.

The Tigers have changed their coach, but not their stripes; and although Parker has changed schools, the personable red head has not changed his enthusiasm nor his dedication. He's still the Vince Lombardi-Knute Rockne-George Patton-influenced coach he was when he began his career at the age of 21.

"I wouldn't predict that we're going to whip cream," related Parker, when questioned about the prospects of beating a certain opponent in 1973. "But I guarantee you one thing -- anybody that does whip us had better bring a lunch, because it's going to be a long afternoon." That's Red Parker.

Parker is married to the former Betty Goggans of Rison, Ark. They have two daughters, Vicki and Cindy, and a son, Jim Mack.



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DWIGHT ADAMS Linebacker Coach

A jovial and personable individual, Dwight Adams joined the Clemson staff this past January, coming from The Citadel where he served for the past seven seasons under first-year Tiger mentor Red Parker.

Adams, a native of Dover, Ark., held the title of assistant defensive coach and specialized in the ends and linebackers.

An all-conference grid selection as a collegian, Adams graduated from Henderson State with a BS in education in 1958.

His coaching career began at Pine Bluff, Ark., High School where he spent four seasons. And from there he journeyed to Lake Charles, La., as a prep coach for one season before joining Parker at The Citadel.

Since he began his coaching career, Adams has coached eight high school or college All-Americans, including two all-pro players.

Adams is married to the former Jo Bickham of Tillar, Ark., and they are the parents of three children—two daughters, Jana, 14; and Ruth, 10; and a son, Scott, 12.



TOM BASS Defensive End Coach

Now the senior member of the Clemson staff, Tom Bass enters his seventh campaign with the Tigers, and under his third different head coach.

Bass came to Clemson from Tennessee and was head freshman coach from 1967 through the 1969 season under Frank Howard.

His next three years were spent under Hootie Ingram as defensive interior line coach and first-year coach Red Parker has switched Bass to the position of defensive end mentor.

The likable Bass earned his BA degree in biology from Maryville College in 1960 and was a standout in both baseball and football.

He entered the coaching field at Sevier County High School where he was an assistant one year prior to being named head coach, a position he held for the next four seasons.

Bass led his prep team to an overall four-year mark of 35-7-2, and was named East Tennessee's "Coach-of-the-Year" in 1964. He was an assistant at UT one year before coming to Clemson.

Bass, a native of Mooresville, N. C., is married to the former Susan Price of Knoxville, Tenn., and they have three children, Thomas Steven, 7; Laura Jane, 4; and John McAndrew, 3.



LARRY BECKISH Receiver Coach

One of the finest offensive coaches in the game, Larry Beckish, like Tom Bass, will enter the 1973 season under his third different Clemson mentor.

Beckish, a native of Haledon, N. J., received his BA degree in education from Wichita State in 1963 where he was a standout grid performer, serving as captain and being named to the All-Missouri Valley Conference team as a senior.

He remained at his alma mater the next two campaigns as an assistant and then moved to Tampa for a two-year stint as offensive line coach.

Beckish then joined Frank Howard's staff at Clemson in 1968 and served two seasons under the Bashful Baron and one under Hootie Ingram in 1970.

Fran Curci, then the head coach at Miami, acquired the services of Beckish for the 1971 campaign, putting the young coach in charge of the Hurricanes offensive backfield.

He returned to Clemson last fall, serving as head jayvee coach, and led the Cubs to a 3-1-1 mark.

He is married to the former Alice Morley of Wichita, Kan., and they are the parents of two sons, Michael, 8; and Chris, 3.



JOE BURSON Defensive Backfield Coach

If enthusiasm and dedication were tangible assets, then Joe Burson would be the most wealthy person in the world.

Called "one of the finest young coaches in the game" by Clemson mentor Red Parker, Burson, who hails from Newnan, Ga., enters his fourth season on the Tigers grid staff.

A standout defensive back under Vince Dooley at Georgia, he graduated from the Athens institution in 1966 with a BS degree in industrial arts.

The ex-Bulldog was then drafted by the NFL's Washington Redskins, but a knee injury ended his professional career.

Burson's first coaching position came at Griffin, Ga., High School where he spent two seasons before coming to Clemson prior to the 1970 campaign.

In his initial year on the Tiger staff, he served as defensive coordinator for the freshman squad and the next year, 1971, was elevated to the varsity staff as defensive end coach, a position he held through the 1972 season.

Following Parker's first spring practice with the Tigers, the newly-appointed Clemson mentor assigned Burson to the defensive backfield.

Burson was married to the former Denise Johanson of North Caldwell, N. J., in August.

Quarterback Coach **DON MURRY**

When Red Parker came to Clemson, one of his first moves was to hire offensive-minded Don Murry, who had served under him for the past seven years at The Citadel.

Born in Harrison, Ark., Murry, who was an all-conference prepster in both football and basketball at Warren High School, earned four grid letters in football at Arkansas A&M under Parker.

He received his BS degree in education in 1966, and then served as a graduate assistant at his alma mater the following year.

Murry then joined his old grid coach at The Citadel and soon built the reputation as being one of the top young offensive coaches in the game.

He served on Parker's Bulldog staff as flanker and receiver coach. Murry's top product during his seven years at The Citadel was All-American Brian Baima, who led the nation in most yards receiving (1,237 yards) on 64 catches in 1971.

Murry is married to the former Libby Gibbs of Crossett, Ark. They are the parents of one son, Barry, 3, and one daughter, Leslie Anne, born Sept. 9th.



Offensive Line Coach **DUKE OWEN**

One of the most popular and well-liked personalities on the Clemson campus, Duke Owen begins his fourth season as a Tiger Assistant.

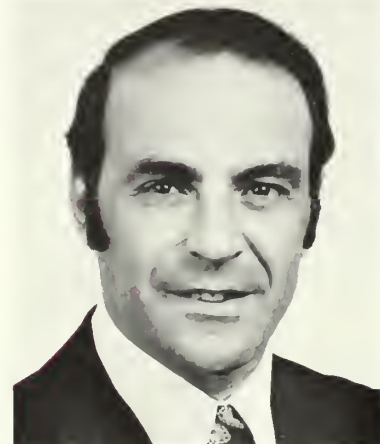
The Lebanon, Ky., native received his BS degree in mathematics from Georgetown, Ky., College in 1953, entered the coaching field in the prep ranks, and immediately established himself as one of the top coaches in the game.

He guided Mount Sterling, Ky., High School to a nine-year record of 76-29-4, and to the state playoffs in three of his first five seasons.

The "Iron Duke" jumped to the college scene in 1964 at Kentucky and remained there through the 1968 season. Owen spent the 1969 campaign at Cincinnati where he served as offensive line coach.

Armed with nothing more than determination and a handful of dedicated players, Owen came to Clemson in 1970 and guided the freshman unit to an impressive 4-1 mark, which included three shutout wins in the final three games of the year. He assumed duties of the varsity offensive line in 1971.

Owen is married to the former Florence Deeb of Louisville, Ky., and they have two sons, David, 15; and Mitchell, 13.



Offensive Running Back Coach **STEVE SATTERFIELD**

After having earned the distinct honor of being recognized as one of the top high school coaches in the game, Steve Satterfield joined the Clemson staff prior to the 1971 season.

A product of Greer, Satterfield played his college ball at South Carolina where he quarterbacked the Gamecocks for three seasons, being named to the All-Atlantic Coast Conference Scholastic team in 1958.

Satterfield was a prep assistant for four years before taking over the head duties at Greenville's Wade Hampton High School.

The following season, Satterfield moved to Sumter and guided Edmunds High to a six-year mark of 45-19-3.

Included in his tenure at Edmunds, was an undefeated 12-0 mark in 1969 and a 4-A state championship trophy.

Satterfield, who holds his masters degree from Appalachian State, was head freshman coach at Clemson in his initial season, was elevated as offensive backfield coach last fall, and now will work with Tiger running backs.

He is married to the former Barbara Woodall of Taylors, and they have three children, Keleigh, 13; Steven, 9; and Susan Joy, 1½.



Defensive Line Coach **HAROLD STEELMAN**

A man who always has a smile on his face, Harold Steelman, like Dwight Adams and Don Murry, came with Red Parker from The Citadel following the 1972 season.

The Pine Bluff, Ark., native spent two years at Little Rock Junior College as a grid performer before heading on to Arkansas, where he graduated in 1955 with a BS in education.

While with the Razorbacks, Steelman played on Arkansas' 1954 Cotton Bowl team.

He spent two years each in the prep coaching ranks at Texarkana, Lewisville, and Eldorado High Schools before joining Parker on the staff at Arkansas A&M.

He remained with the red head at the Arkansas school and also came with him to The Citadel in 1966.

Steelman spent his past seven seasons with the Bulldogs, holding the title as head defensive coach with overall defensive responsibilities and specializing with the interior line.

He is married to the former Carolyn Corley of Little Rock, Ark., and they are the parents of a daughter, Sara Lyn, 17; and a son, Hal, 14.



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Substitution Infractions



Illegal Procedure
or Position



Offside (Infraction
of scrimmage or
free kick formation)



Illegal Motion



Clipping



Ineligible Receiver
Down Field on Pass



Safety



Incomplete Forward Pass
Penalty Declined,
No Play, or No Score



Helping the Runner, or
Interlocked Interference



Ball Dead; If Hand
is Moved from Side
to Side: Touchback



Touchdown or
Field Goal



Delay of Game



Illegal use of
Hands and Arms



Illegally Passing
or Handling Ball Forward



Forward Pass or
Kick Catching
Interference



Personal Foul



Illegal Shift



First Down



Loss of Down



Roughing the Kicker



ED EMORY Jayvee Coordinator

Considered one of the top prep coaches in the South, Ed Emory joined the Clemson staff this past July from Brevard, N. C., High School.

Following graduation from East Carolina in 1960, where he was a standout linemen for the Pirates, Emory was an assistant at Kinston, N. C., High School three years, before being named as head mentor at Wadesboro, N. C., High.

Emory held that position for a total of four seasons and was then tabbed as head coach at Wadesboro's Bowman High School in 1968. Then after a one-year stint at Wake Forest, Emory went to Brevard where he has posted a 35-7 mark over the past four seasons.

Three times he has been named as a conference coach-of-the-year, twice in Wadesboro, and once at Brevard, and in 1971 Emory was tabbed as the Western North Carolina Coach-of-the-Year. His overall coaching record is 75-17-2.

He is married to the former Virginia Jones of Greenville, N. C., and they have one daughter, Lucille, 11; and a son, Battle, 7.



RONNIE CARTER Asst. Jayvee Coach and Recruiter

All the way from the seventh grade to the staff at Clemson, Ronnie Carter has been with Red Parker—either as a player or as a coach.

A native of Fordyce, Ark., Carter played for the red head at Fordyce High School, where the former lettered in football, basketball, and track, prior to his graduation in 1961.

After spending a year and a half at the University of Arkansas, Carter transferred to Arkansas A&M where he was a standout running back for Parker before graduating in 1967.

He entered the coaching field the next year at Monticello, Ark., and after serving as an assistant, was elevated to head coach where he battled through a 3-7-1 record in his initial year, but came back with a fine 7-4 mark the next season.

Carter then moved to Charleston where he served as an assistant at St. Andrews for one year, assumed the head duties the next, and posted a two-year mark of 16-5 as the Rocks mentor.

Carter is married to the former Diane Rash of Monticello, Ark., and they have one daughter, Jennifer, 18 months.



TOM MOORE Assistant Jayvee Coach

It was almost like a homecoming for Tom Moore when Red Parker assumed the head coaching reins at Clemson last December. Because Moore, a native of Dayton, O., played college ball under the red head at The Citadel.

Moore, who prepped at Beaver Falls, Pa., High School and played on the same team with New York Jet quarterback Joe Namath, earned three letters at The Citadel as a halfback and wide receiver.

As a senior, Moore was selected as one of the co-captains for the Cadets and also earned All-Southern Conference recognition.

Following graduation in 1967 with a BS in political science, Moore served as a graduate assistant at his alma mater one season.

He was then named as offensive coordinator at Aurora Central, Colo., High School and stayed there one year before moving to the college ranks at Wichita State.

At WSU, Moore was head freshman mentor in 1968, and then receiver coach for the varsity in 1969 and 1970.

He joined the Clemson staff prior to the 1971 season.

Moore is married to the former Joyce Stewart of Clemson and they have one son, Rhett.



WILLIAM SWINGER Assistant Jayvee Coach

The newest addition to Red Parker's Clemson staff is the personable William Swinger, who joined the family this past summer from Will Roberts' successful program at Anderson's Westside High School.

Swinger was a three-sport standout as a prepster at Westside and quarterbacked the grid team to the state championship his senior season in 1961. He then entered South Carolina State on a football scholarship, where he was tabbed both all-state and all-conference as a signal-caller and a defensive safety prior to receiving his BS degree in physical education in 1965.

New Deal High School in Starr was his first stop in the coaching ranks where he served as both the head football and basketball coach for two seasons before moving on to his alma mater as an assistant.

After a two-year stint in the U. S. Army, including some time in Viet Nam, Swinger returned to Westside where he has been coaching for the past three years.

He is married to the former Lois Yvonne Carter of Anderson and they are the parents of one daughter, Monique, 2½.



CLYDE WRENN Recruiting Coordinator

An around-the-clock and diligent worker, Clyde Wrenn enters his second season on the Clemson staff, and has just completed his first full year as the Tigers chief recruiter.

The Chester native played baseball at Spartanburg Junior College, transferred to N. C. State after two years, and earned his BS degree in recreation and park administration in 1965.

The year after his graduation, Wrenn was named as head assistant football and head baseball coach at Florence's Southside High School.

Wrenn, who earned his masters from Western Carolina, remained at Southside for five seasons before accepting the position as athletic director and head football coach at West Florence High School.

Then following a two-year tour of duty there, he came to Clemson prior to the 1972 campaign as an assistant jayvee coach and also worked with both recruiting and scouting.

Wrenn is married to his former hometown sweetheart, Willa Lynn, and they are the parents of two sons, Craig, 4; and Cal, 1.

CLEMSON FOOTBALL WITH RED PARKER

Filmed highlights of today's game with Coach Red Parker and the Voice of the Clemson Tigers, Jim Phillips, can be seen each Sunday afternoon at 12:30 on WFBC-TV and the following stations:

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Head Trainer **FRED HOOVER**

Recognized by his peers as one of the top trainers in the country, Fred Hoover begins his 15th season as a valuable member of the Clemson staff.

"Doc" Hoover earned his degree in physical education from Florida State in 1953, where he served as head coach in 1952-53 and again in 1957-58.

The Jacksonville, Fla., native is a member of the National Athletic Trainers Association, and has served as a past district director and past national president of the NATA, and has just completed a year as the national convention chairman of that organization.

Hoover handled the training duties for the United States at the Pan American games in Sao Paulo, Brazil in 1963, and was selected to serve on the staff in the Olympic games in Munich, Germany last summer.

He is married to the former Elva Cook of Mt. Vernon, Ill., and they have one daughter, Catherine Ann, 15; and one son, Bryan, 12.



Assistant Trainer **HERMAN MCGEE**

"Mr. Clemson," Herman McGee, has taped more ankles of Clemson athletes than of all other trainers combined, because Herm has been with the Tigers for the past 39 years.

In his tenure, the Pendleton native has served as assistant trainer, head trainer, and equipment manager.

He can tell you everything about every Clemson athlete since he has been with Clemson, and about all seven bowl appearances the Tigers have made—from the 1940 Cotton through the 1959 Bluebonnet.

McGee is married to the former Lucia Greene of Pendleton.



Assistant Trainer **WALTER MCCOMBS**

The most recent addition to Fred Hoover's top-flight training staff came in the form of smiling redheaded Walt McCombs, who joined the Clemson staff this past August from the University of Kentucky.

A native of Belton, McCombs spent his prep days in Greenville where he graduated from Parker High School in 1967. He then enrolled at The Citadel, where he served as a student trainer four years, and earned his B.S. degree in physical education in 1971.

Following graduation from The Military College of South Carolina, he joined the Kentucky staff as a graduate assistant on the training staff, working with football, and held that position for some three months before being named as head basketball trainer.

McCombs, who is single, served as head cage trainer for the Wildcats the past two seasons.



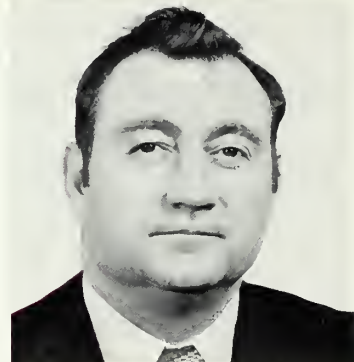
Equipment Manager **TOM BURTON**

A dedicated worker, Tom Burton enters his fifth season as equipment manager on the Clemson athletic staff. "Sarge" handles his equipment in the same manner he handled his recruits during a 22-year career in the U. S. Army—in top shape.

The Richmond, Va., native served in eight foreign countries in the military, including Asiatic-Pacific area, Germany, and three tours of the Far East.

Burton was no newcomer to the college scene as he has served on the Furman ROTC staff one year, and on the Clemson ROTC staff seven years. At Clemson, Burton was also chaperone for the Tiger band.

He is married to the former Bea Davis of Lynchburg, Va., and they are the parents of two daughters, Jan, 20; and Jerry, 19.



Academic Advisor **RICK ROBBINS**

Some call him "Braincoach," and some call him "Colonel." Regardless of the title, Rick Robbins coaches more than 300 Clemson athletes each year as the Tigers academic advisor.

In his spare time, the Austin, Tex., native serves as Clemson's assistant track coach.

Robbins graduated from the University of Texas and retired from the U. S. Army with the rank of lieutenant colonel.

Robbins is responsible for the many Clemson athletes graduating with honor and has aided, successfully, in the negotiations between many Tiger athletes and professional teams.

He is married to the former Clare Eaves of Palestine, Tex. They have two sons, Dick, 19, a Clemson sophomore; and Tommy 15.





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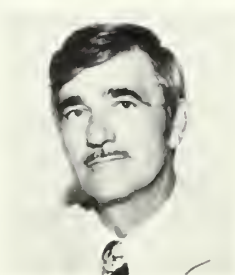
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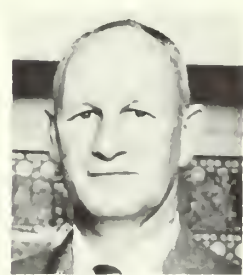
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Will the real chicken



spread please stand up?

For today's frustrated consumer, caught between rising food costs and a desire for nutritious, easily prepared foods, help is on the way.

Clemson University food scientists are actively involved in a team effort to provide consumers with adequate food supplies of optimum nutritional quality at realistic prices. Their research is creating some totally new food products, improving existing foods, and opening new markets for South Carolina producers and processors.

One of the stars in the lineup of accomplishments by Clemson researchers is the same product football fans hear hawked during every game—peanuts. Using a technique of grinding peanuts into a thick milky substance, pressure-cooking and drum drying the peanut milk into a flake form, Dr. Jack H. Mitchell, Jr. has made cheese-flavored peanut flakes for use in spreads and dips, combined the flakes with chicken, turkey and other meats for low cost boneless meat rolls, and used coconut-flavored flakes to make a filling for chocolate candy.

In all cases taste-testers have found peanut flake products highly acceptable and many taste panelists have been unable to distinguish between conventional food products and those made with flakes.

Peanut flakes are high in protein and well-balanced with fat and carbohydrate, offering consumers a nutritious way to meet rising food costs and also providing a potential source of relief for protein deficient countries of the world.

Continuing their search for new food sources, Clemson researchers turned to the soybean. Widely grown in South Carolina, with over one million acres planted this year, soybeans are the state's biggest crop in terms of acres planted and second only to tobacco as a cash crop. In spite of their very high protein content, most soybeans grown in the state are used for animal feed, crushed for oil, or exported to foreign markets.

In Japan and China, two of the world's biggest users of soybeans, people consume large quantities of soybeans in a variety of high protein food products and gourmet dishes. Taking a cue from the Orient, Dr. Joe J. Jen adopted a technique of processing soybeans into a product from which many different tasting and appearing foods can be made.

Known as Tofu, the product is obtained by grinding soybeans into a milk and extracting the protein. After the water is pressed out, almost pure protein remains.

Since Tofu is rather bland in taste, artificial flavoring can be mixed with it to produce almost any desired flavor. The texture also can be varied from a soft pudding or jello consistency to the firmness of

cheese. Scientists say that even a meat-like texture can be incorporated into Tofu.

With potential uses as exotic as its name, Tofu could one day be the basis of a seven-course dinner.

Second only in popularity to the peanut as a snack food are corn chips, and Clemson is working to improve this traditional snack.

Although corn is a major crop and diet staple in many countries, corn protein is not adequate in quality for optimum human nutrition. Corn is particularly low in certain essential amino acids required for proper nutrition.

Dr. Woodie P. Williams and plant breeder Dr. Alfred Manwiller have found that certain hybrid corn varieties have larger quantities of the vital amino acids needed for human nutrition. By incorporating the high protein characteristics of opaque-2 corn into normal corn varieties, the nutritional quality can be considerably improved.

Because of the almost universal use of corn, the development of corn varieties with higher protein is a significant advancement. Corn is the basic ingredient in many snack foods. The popularity of snack foods makes the use of higher protein corn particularly valuable. In countries where corn is the diet staple, an increase in the protein content of corn could greatly raise the per capita protein intake, thus easing the world protein shortage.

Clemson food scientists are working with other researchers in the College of Agricultural Sciences on additional projects designed to benefit producers by finding new food crops which can be grown and processed in South Carolina. Cost conscious consumers could also profit from an expansion of in-state produced foods.

Projects underway include studies of the feasibility of growing potatoes suitable for making potato chips; evaluating peach varieties and growing and processing techniques to improve canned peach quality; finding more efficient methods of producing processed meats; and perhaps most unusual, research into the possibility of growing tea in South Carolina.

Food scientists at Clemson are part of a team, conducting a research program coordinated by the S. C. Agricultural Experiment Station in the College of Agricultural Sciences. Their challenge is to provide better living and more income for the people of the state. In their efforts to help provide Palmetto State consumers with an adequate, nutritious, and realistically-priced food supply these researchers have made significant advances in helping beat man's oldest enemy—world hunger.

1977 Clemson Varsity Football Roster

NO.	NAME	POS.	DATE	HGT.	WGT.	LTRS.	CLASS	HOMETOWN, HIGH SCHOOL, HIGH SCHOOL COACH
1	Peanut Martin	DB	1-17-54	6-3	172	1	So.	Abbeville, S. C., Abbeville, Preston Cox
2	Tom Marsik	DB	9-22-54	5-10	165	0	So.	Audubon, N. J., Audubon, Tom Curley
3	Mitch Tyner	P	7-3-53	6-1	214	0	Jr.	Darlington, S. C., Lamar, William McDonald
4	Mark Freeburg	PK	1-19-54	6-4	191	0	So.	Orangeburg, S. C., Orangeburg-Wilkinson, Dick Sheridan
5	Rut Livingston	QB	10-15-54	6-1½	186	0	Fr.	Hendersonville, N. C., Hendersonville, Joe Hunt
6	Bob Burgess	PK	5-27-52	6-2	205	0	Jr.	Avondale, Ga., Avondale, C. G. Ramsey
7	Jim Ness	DB	1-6-51	5-9	174	1	Jr.	Daytona Beach, Fla., Seabreeze Senior, Jack Armstrong
8	Jerry Davis	WR	3-30-52	6-1	174	1	Jr.	Walterboro, S. C., Walterboro, Dick Covington
9	Mike O'Cain	QB	7-20-54	5-11½	170	0	So.	Orangeburg, S. C., Orangeburg-Wilkinson, Dick Sheridan
10	Chris Chappell	P	2-21-53	6-1	170	0	So.	Columbia, S. C., Irmo, Ernest Nivens
11	Ken Pengitore	QB	3-27-52	5-10½	193	2	Sr.	Haledon, N. J., Manchester Regional, Jefferson Holbert
12	Mark Fellers	QB	1-21-52	6-2	191	1	Jr.	Charlotte, N. C., Myers Park, Gus Purcell
13	Eddie Crawford	DB	1-30-54	6-1	189	0	So.	Pelzer, S. C., Palmetto, Charlie Martin
14	Lawson Holland	QB	9-29-52	6-1½	192	0	Jr.	Mooresville, N. C., Mooresville, Perry Pearson
16	Bill Wingo	DB	10-31-54	5-8	156	0	Fr.	Union, S. C., Union, Rick Carlisle
17	Mike Cornell	DB	7-7-55	5-9	160	0	Fr.	Delaware, Ohio, Rutherford B. Hayes, Gerald Cornell
18	Malcolm Marler	DB	7-9-55	5-9	167	0	Fr.	Gardendale, Ala., Gardendale, Dennis Love
20	David Sasser	WR	1-11-51	6-2½	195	2	Sr.	Savannah, Ga., Groves, Jack Miller
21	Steve Kelley	DB	11-1-52	5-10½	165	0	Jr.	Greenville, S. C., Greenville Senior, Slick Moore
23	Smiley Sanders	RB	6-16-52	6-1	199	2	Sr.	Central, S. C., D. W. Daniel, Dick Singleton
24	Craig Brantley	WR	8-6-54	6-0	163	0	So.	Charlotte, N. C., Myers Park, Gus Purcell
25	Dennis Smith	WR	7-12-53	5-10½	169	0	So.	Elba, Ala., Elba, Leon Akins
26	Mike Gaddis	DB	5-2-52	5-10½	173	0	So.	Greenville, S. C., Wade Hampton, Bill Phillips
27	Chuck Huntley	RB	5-30-51	5-8	175	1	Sr.	Greenwood, S. C., Greenwood, Pinky Babb
28	Mark Lee	DB	4-4-54	6-2	177	0	So.	Spartanburg, S. C., Spartanburg, Bill Carr
29	Rickey Bustle	WR	8-23-53	5-11	180	0	So.	Summerville, S. C., Summerville, John McKissick
30	Jay Washington	RB	10-31-51	6-1	185	1	Sr.	Charleston, S. C., C. A. Brown, Mundul Buksha
31	Leon Hope	RB	1-12-52	5-9½	194	0	So.	York, S. C., York, Jimmy Wallace
32	George Bosse	RB	12-20-53	6-½	194	0	So.	Upper Falls, Md., John Carroll, Gerald Gray
33	Leon Fabers	DB	10-4-50	5-8½	177	1	Sr.	Charleston, S. C., C. A. Brown, Mundul Buksha
35	Marvin Anderson	RB	11-7-53	5-10	185	0	So.	Travelers Rest, S. C., Travelers Rest, Roger Hayes
38	Marion Reeves	DB	2-23-52	6-½	183	2	Sr.	Irmo, S. C., Irmo, Ernest Nivens
39	Dennis Silver	LB	7-12-52	6-½	197	0	So.	Asheville, N. C., North Buncombe, Bill Ensley
40	Lynn Carson	DB	3-4-54	5-10½	159	0	So.	Upper St. Clair, Pa., Upper St. Clair, William Merritt
41	Frank Wise	LB	6-19-54	6-2	207	1	So.	Columbia, S. C., Eau Claire, Bobby Carlton
42	Toni Mathews	RB	10-14-51	6-0	203	0	Jr.	Altamonte Springs, Fla., Lyman, Richard Copeland
43	Jay Kreis	LB	10-4-52	6-½	218	0	So.	Birmingham, Ala., Mountain Brook, Darrell Fitts
44	Ken Callicutt	RB	8-20-55	6-1	194	0	Fr.	Chester, S. C., Chester, Jim Kimmell
45	Tommy Ducworth	LB	12-31-52	5-9½	184	0	So.	Anderson, S. C., T. L. Hanna, Jim Fraser
47	Tim Stough	LB	8-9-55	6-2	215	0	Fr.	Levittown, Pa., Bishop Egan, Bernard Farrell
48	Bobby Sharpe	LB	4-15-54	6-½	194	0	So.	Anderson, S. C., T. L. Hanna, Jim Fraser
50	Mark Boynton	LB	10-22-54	6-0	205	0	So.	Greensburg, Pa., Central Catholic, Ron Smith
51	Curt Buttermore	OT	9-7-52	6-0	222	1	Jr.	Perryopolis, Pa., Frazier, James Newmeyer
53	Maret Cobb	OT	2-19-53	6-2	232	1	Jr.	Piedmont, S. C., Carolina, Rick Carlisle
54	John Bolubasz	C	7-19-52	6-1½	203	2	Sr.	Elizabeth, Pa., Elizabeth-Forward, George Hayes
55	Ron Bowlan	C	5-13-53	6-2	227	0	Jr.	Wichita, Kans., Wichita Southeast, Marvin Vandiver
56	Wayne Neely	C	4-27-54	6-2	207	0	So.	McConnells, S. C., York, Jimmy Wallace
57	Ford Gibson	OT	11-11-53	6-3	224	0	So.	Knoxville, Tenn., Bearden, Jim Smelcher
58	Mike Buckner	LB	7-29-52	6-0	188	2	Sr.	Morristown, Tenn., Morristown-Hamblen East, Rex Dockery
59	Bill Dobbins	C	10-25-53	5-9	188	0	So.	Orangeburg, S. C., Orangeburg-Wilkinson, Dick Sheridan
60	Nelson Wallace	LB	11-21-54	6-1	194	0	Fr.	Pageland, S. C., Pageland, Bill Few
61	Art Brisacher	OG	3-30-52	6-4	232	2	Sr.	Fairfield, N. Y., West Essex, Stan Scher
62	G. G. Galloway	DT	9-10-53	6-4	221	1	So.	Anderson, S. C., T. L. Hanna, Jim Fraser
64	Stan Greenawalt	DE	6-29-51	6-1½	224	0	Jr.	Oxon Hill, Md., Crossland, John Merricks
65	Henry Allen	LB	1-15-52	6-0	211	0	So.	Manning, S. C., Manning, Jack Turpin
67	Leighton Cabbage	LB	2-19-53	6-1½	207	0	So.	Sumter, S. C., Sumter, Steve Satterfield
68	Mike Webber	LB	2-21-53	6-2	189	0	So.	Greenwood, S. C., Greenwood, Pinky Babb
69	Richard Shafer	OG	8-1-55	6-2	210	0	Fr.	Ft. Myers, Fla., Ft. Myers, Sam Sirianni
70	Neal Jetton	OG	10-21-53	6-2	243	0	So.	Charlotte, N. C., West Mecklenburg, Clyde Peek
71	Bruce Decock	DT	9-16-52	6-0	215	2	Sr.	Kittanning, Pa., Kittanning, Dave Ullom
72	Frank Bethea	OT	3-25-53	5-11	219	0	So.	Springfield, S. C., Hunter-Kinard, John Weathers
73	Harry Fulwood	DT	1-27-50	6-4½	242	0	So.	Lynchburg, S. C., Eastern, W. G. Wright
74	Gary Alexander	OT	1-16-54	6-5	223	0	So.	Seneca, S. C., Seneca, Eddie Buck
75	Don Stone	DT	7-7-55	6-5	230	0	Fr.	Levittown, Pa., Woodrow Wilson, Pat Picerillo
76	George Hyams	OT	6-14-54	6-4½	215	0	So.	Silver Spring, Md., Good Counsel, Andrew Guida
77	Ken Peebles	OG	1-2-52	6-1½	239	1	Jr.	Timonium, Md., Riverside Military, William Magginis
78	Ed Homonoff	OG	12-9-54	6-2½	218	0	So.	Los Angeles, Calif., Canoga Park, Jim Fazio
79	Al Murray	OG	1-15-52	6-2	222	1	Jr.	Tampa, Fla., King, Dick O'Brien
80	Jeff Stocks	DE	12-6-51	6-2	198	2	Sr.	New Bern, N. C., New Bern, Roger Thrift
81	Bob Shell	WR	1-23-51	6-1	185	2	Sr.	Atlanta, Ga., St. Pius X, George Maloof
82	Jim Lanzendoen	WR	4-23-53	6-1	183	0	Jr.	River Edge, N. J., River Dell, Ralph Kirchenhiter
83	Gordy Bengel	WR	7-18-52	6-1½	195	2	Sr.	Townson, Md., Calvert Hall, Joe Carlozo
84	Karl Andreas	TE	8-7-52	6-2	201	2	Sr.	Slatington, Pa., Slatington, Paul Turner
85	Bennie Cunningham	TE	12-23-54	6-4½	250	0	So.	Seneca, S. C., Seneca, Eddie Buck
86	Tom Boozer	DE	10-16-52	6-1	213	1	Jr.	Columbia, S. C., Eau Claire, Jim Satterfield
87	Chuck Gordon	DT	7-19-54	6-3	230	0	So.	Charlotte, N. C., Olympic, Joe White
88	C. H. Ducworth	DE	5-27-54	5-10½	194	0	So.	Anderson, S. C., T. L. Hanna, Jim Fraser
89	Willie Anderson	LB	12-4-52	6-2	211	1	Jr.	Mayesville, S. C., Mayewood, Eugene Nalley
91	David Hughston	DE	6-9-54	6-4	215	0	So.	Charlotte, N. C., Garinger, Ron Wright
92	Ken Weichel	DE	7-4-55	6-4	226	0	Fr.	Whitehall, Pa., Whitehall, Andy Melosky
93	Travers Webb	LB	5-6-55	6-2	220	0	Fr.	Graham, N. C., Graham, Bill Joye
94	Bob Jones	DE	9-12-50	6-3½	210	1	Sr.	Chicago, Ill., Brother Rice, Thomas Mitchell
95	Dan McBride	DT	3-18-53	6-4½	233	0	So.	Perry, N. Y., Perry Central, Del Bell
96	Harold Cain	DE	12-31-54	6-6	207	0	Fr.	Columbus, Ga., Hardaway, Sammy Howard
97	Guy Gehret	DE	2-17-52	6-1	188	1	Jr.	Altoona, Pa., Altoona, Earl Strohm
98	David LeBel	DT	10-25-53	6-6	214	0	So.	Jacksonville, N. C., Jacksonville, Cameron Little

After three hours in hard wooden seats, spilled mustard and a roaring crowd, recuperate in Monte Carlo.

A football stadium is a great place to spend a Saturday afternoon in autumn. But, after the game, you're ready for some peace and quiet, some comfort and some elegance.

That's why the Monte

Carlo is a great place to spend a Saturday *evening* in autumn.

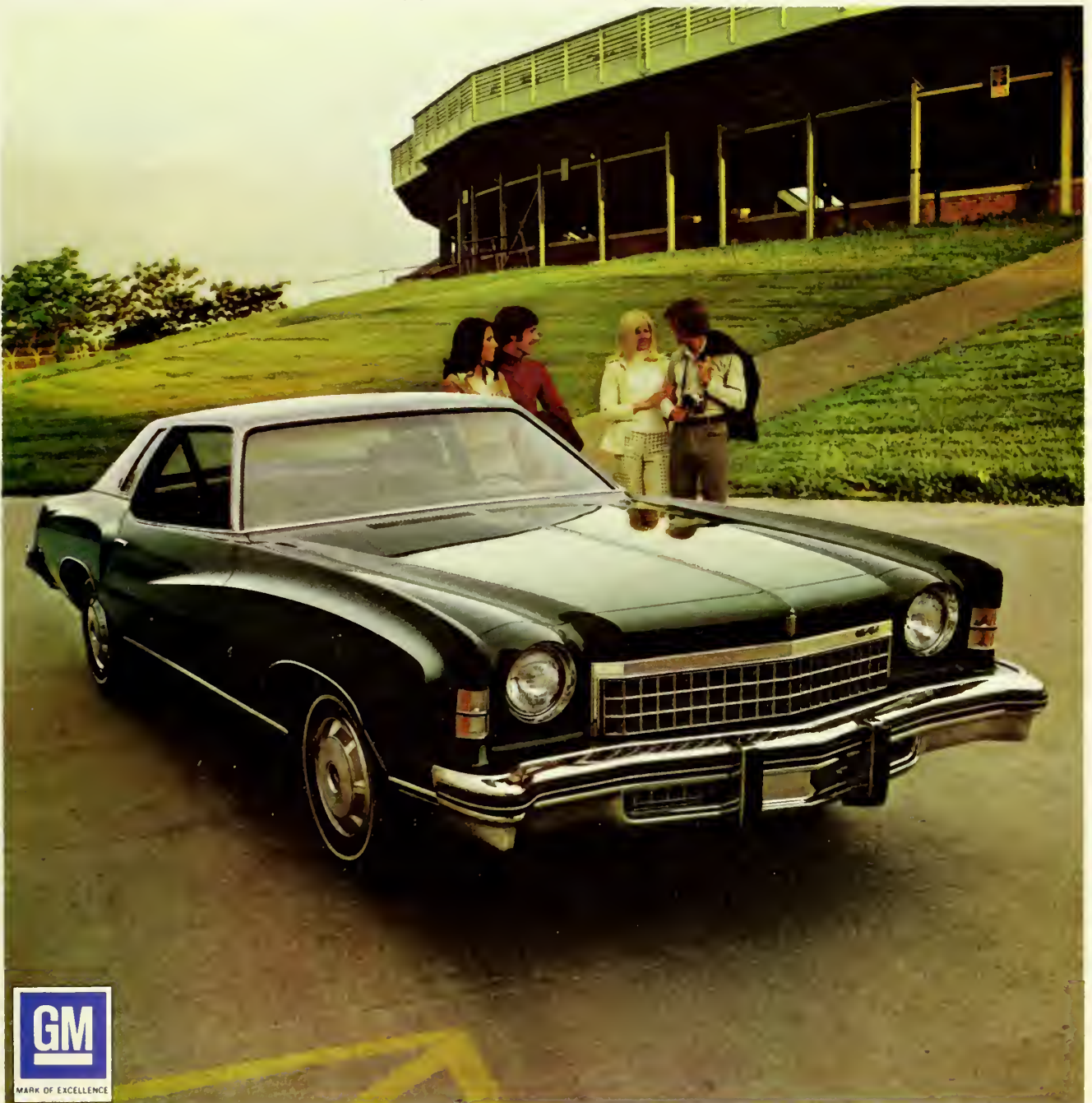
Monte Carlo's radial-tuned suspension is designed to let you enjoy the advantages of its steel-belted radial ply tires.

The result is the kind of confident handling and comfortable ride you might expect from a fine personal luxury car.

Power disc/drum brakes and variable-ratio power steering are standard, of

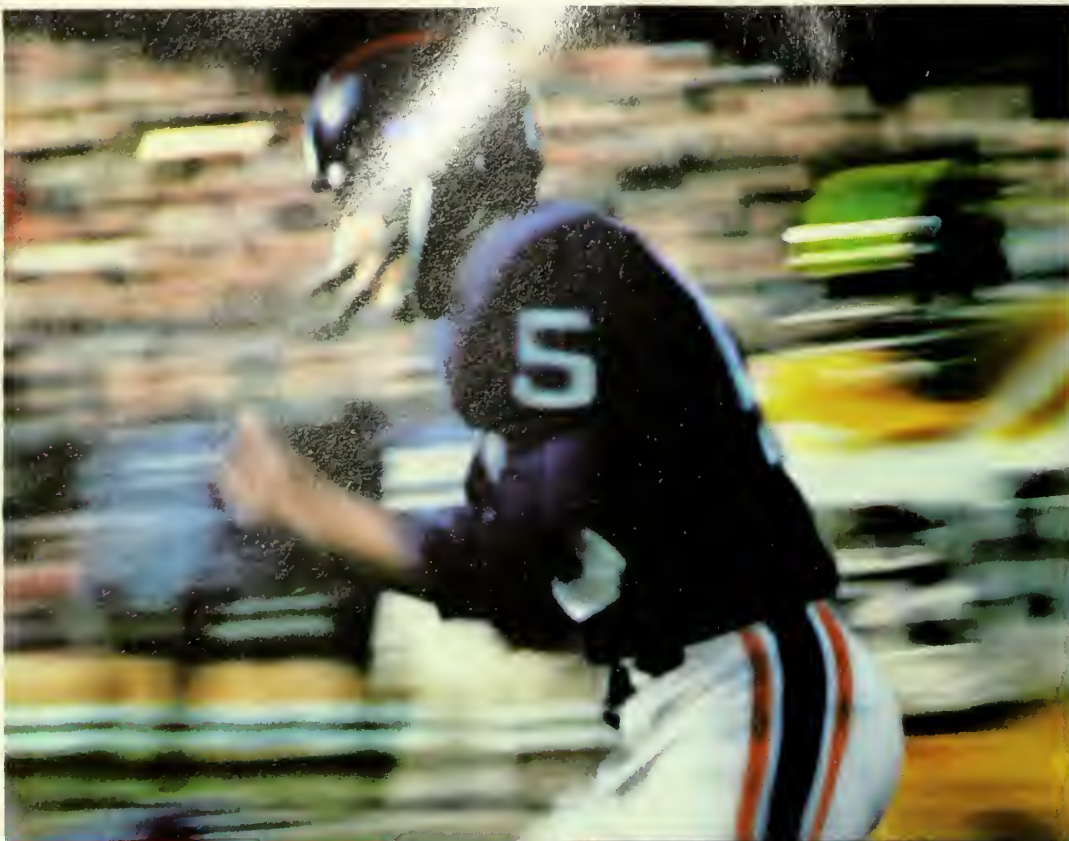
course. Because it just wouldn't be a Monte Carlo without them.

When you're ready to leave the roaring crowd behind, get behind the wheel of a 1974 Monte Carlo by Chevrolet.

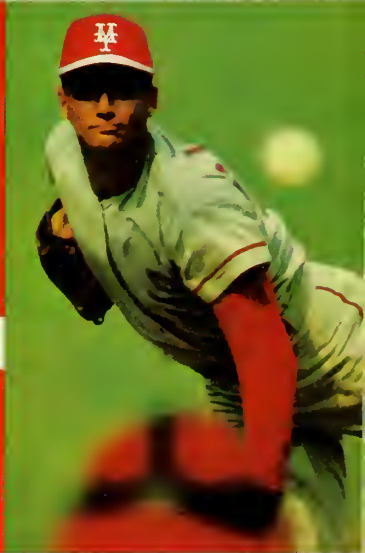


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When Clemson Has The Ball

OFFENSE

83	Gordy Bengel	WR
72	Frank Bethea	QT
51	Curt Buttermore	OG
54	John Bolubasz	C
77	Ken Peebles	SG
53	Maret Cobb	ST
85	Bennie Cunningham	TE
11	Ken Pengitore	QB
23	Smiley Sanders	SB
30	Jay Washington	RB
82	Jim Lanzendoen	FLK

DEFENSE

84	Brian Krueger	LE
71	Sam Senneca	LT
70	John Goeller	RT
82	Mark Wilks	RE
66	Mike Daley	LB
79	Dan Meier	LB
41	Kirby Shimp	LB
26	Eddie Poole	CB
20	Mike Stultz	CB
21	Bobby Pilz	S
35	Mike Devine	S

When N. C. State Has The Ball

OFFENSE

1	Mike Hardy	WR
78	Allen Sitterle	LT
62	Bob Blanchard	LG
53	Justus Everett	C
63	Bill Yoest	RG
72	Rick Lehr	RT
81	Harvey Willis	TE
12	Bruce Shaw	QB
22	Roland Hooks	FB
10	Willie Burden	RB
19	Don Buckey	WR

DEFENSE

80	Jeff Stocks	LE
71	Bruce Decock	LT
41	Frank Wise	LLB
89	Willie Anderson	MG
58	Mike Buckner	RLB
62	G. G. Galloway	RT
94	Bob Jones	RE
38	Marion Reeves	LC
7	Jim Ness	SS
1	Peanut Martin	WS
40	Lynn Carson	RC

TIGERS

1	Martin, DB	53	Cobb, OT
2	Marsik, DB	54	Bolubasz, C
3	Tyner, P	55	Bowlan, C
4	Freeburg, PK	56	Neely, C
5	Livingston, QB	57	Gibson, OT
6	Burgess, PK	58	Buckner, LB
7	Ness, DB	59	Dobbins, C
8	Davis, WR	60	Wallace, LB
9	O'Cain, QB	61	Brisacher, OG
10	Chappell, P	62	Galloway, DT
11	Pengitore, QB	64	Greenawalt, DE
12	Fellers, QB	65	Allen, LB
13	Crawford, DB	67	Cubbage, LB
14	Holland, QB	68	Webber, LB
16	Wingo, DB	69	Shafer, OG
17	Cornell, DB	70	Jetton, OG
18	Marler, DB	71	Decock, DT
20	Sasser, WR	72	Bethea, OT
21	Kelley, DB	73	Fulwood, DT
23	Sanders, RB	74	Alexander, OT
24	Brantley, WR	75	Stone, DT
25	Smith, WR	76	Hyams, OT
26	Gaddis, DB	77	Peebles, OG
27	Huntley, RB	78	Homonoff, OG
28	Lee, DB	79	Murray, OG
29	Bustle, WR	80	Stocks, DE
30	Washington, RB	81	Shell, WR
31	Hope, RB	82	Lanzendoen, WR
32	Bosse, RB	83	Bengel, WR
33	Fabers, DB	84	Andreas, TE
35	Anderson, RB	85	Cunningham, TE
38	Reeves, DB	86	Boozer, DE
39	Silver, LB	87	Gordon, DT
40	Carson, DB	88	Ducworth, DE
41	Wise, LB	89	Anderson, LB
42	Mathews, RB	91	Hughston, DE
43	Kreis, LB	92	Weichel, DE
44	Calicut, RB	93	Webb, LB
45	Duckworth, LB	94	Jones, DE
47	Stough, LB	95	McBride, DT
48	Sharpe, LB	96	Cain, DE
50	Boynnton, LB	97	Gehret, DE
51	Buttermore, OT	98	LeBel, DT

WOLFPACK

1	Hardy, WR	51	Alcamo, C
6	Gargano, QB	52	Christopher, C
7	Gantt, WR	53	Everett, C
10	Burden, RB	54	Hand, LB
11	Buckey, QB	55	Rhoden, LB
12	Shaw, QB	56	Grasso, C
13	Divens, DB	57	Sheesley, LB
14	Sewell, K	58	Roberts, CB
16	McLoughlin, WR	59	Walker, LB
17	Moody, WR	60	Bradburn, G
19	Buckey, WR	61	Serfass, G
20	Stultz, DB	62	Blanchard, G
21	Pilz, DB	63	Yoest, G
22	Hooks, RB	64	Ahern, G
24	Whitaker, RB	65	Banther, DB
25	White, RB	66	Daley, LB
26	Poole, DB	67	Shavis, DT
27	Marko, WR	68	Knowles, LB
28	Wheeler, DB	69	Miller, DB
29	Jackson, DB	70	Goeller, DT
30	Young, FB	71	Senneca, DT
32	Weaver, K	72	Lehr, T
33	Fritts, FB	73	Carter, DT
34	London, RB	74	Lail, DT
35	Devine, DB	75	Kennedy, T
36	Haggerty, RB	76	Haywood, DT
37	Bigalke, K	77	Druschel, T
38	Baltrus, DB	78	Sitterle, T
39	Robinson, DB	79	Meier, DT
40	Huff, K	80	Thalman, TE
41	Shimp, LB	81	Willis, TE
42	Stringer, DB	82	Wilks, DE
43	Sygar, RB	83	Adamczyk, DE
44	Clark, LB	84	Krueger, DE
45	Cherry, LB	85	Xander, DE
46	Salopek, DB	86	Thompson, DE
47	Hall, LB	87	Hovance, TE
48	Michael, LB	88	Lytte, TE
49	Henderson, DT	89	Genis, DE
50	Higgins, LB		

OFFICIALS

Referee: Carl Dean	Field Judge: Bo Menton
Umpire: Tom Chambers	Back Judge: Bob Sandell
Linesman: William Jamerson	Clock Operator: Ray Moore

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1973 N. C. State Varsity Football Roster

NO.	NAME	POS.	HGT.	WGT.	AGE	LTRS.	CLASS	HOMETOWN
1	Mike Hardy	WR	5-9	157	18	0	So.	Greensboro, N. C.
6	John Gargano	QB	5-9	177	22	0	Jr.	Howard Beach, N. Y.
7	George Gantt	WR	5-10	169	21	0	Jr.	Belton, S. C.
10	Willie Burden	RB	5-11	204	22	2	Sr.	Raleigh, N. C.
11	Dave Buckey	QB	6-0	161	19	1	So.	Akron, Ohio
12	Bruce Shaw	QB	6-2	192	21	2	Sr.	Richmond, Va.
13	Bob Divens	DB	6-2	196	21	2	Sr.	Trafford, Pa.
14	Ron Sewell	K	5-10	163	21	1	Jr.	Roanoke Rapids, N. C.
16	Tom McLoughlin	WR	6-1	182	17	0	Fr.	East Orange, N. J.
17	David Moody	WR	6-0	172	17	0	Fr.	Asheboro, N. C.
19	Don Buckey	WR	6-0	167	19	1	So.	Akron, Ohio
20	Mike Stultz	DB	5-10	187	21	2	Sr.	Braddock Heights, Md.
21	Bobby Pilz	DB	5-9	170	22	2	Sr.	Easton, Pa.
22	Roland Hooks	RB	6-0	192	20	1	Jr.	Grifton, N. C.
24	Horace Whitaker	RB	6-1	200	17	0	Fr.	Fayetteville, N. C.
25	Allen White	RB	6-2	195	18	0	Fr.	Lewiston, N. C.
26	Eddie Poole	DB	6-0	190	20	0	So.	Troy, N. C.
27	John Marko	WR	5-10	189	19	0	Jr.	McKeesport, Pa.
28	Richard Wheeler	DB	6-2	193	19	0	So.	Durham, N. C.
29	Darryl Jackson	DB	6-0	190	19	0	So.	Lynchburg, Va.
30	Charley Yong	FB	6-1	223	21	2	Sr.	Raleigh, N. C.
32	Jeff Weaver	K	5-11	177	20	0	Jr.	Lincolnton, N. C.
33	Stan Fritts	FB	6-1	210	21	1	Jr.	Oak Ridge, Tenn.
34	Tom London	RB	6-1	197	19	0	Fr.	Shelby, N. C.
35	Mike Devine	DB	5-10	186	21	1	Jr.	Monroeville, Pa.
36	Rich Haggerty	RB	5-10	185	19	0	So.	High Point, N. C.
37	Chris Bigalke	K	5-9	170	20	0	So.	Columbia, S. C.
38	Alan Baltrus	DB	5-11	167	18	0	Fr.	Monroeville, Pa.
39	Joe Robinson	DB	6-0	183	20	0	Jr.	Carthage, N. C.
40	John Huff	K	5-11	172	19	0	Jr.	St. Paul, Va.
41	Kirby Shimp	LB	6-0	200	21	0	Sr.	Montoursville, Pa.
42	Ralph Stringer	DB	5-11	182	17	0	Fr.	Warren, Ohio
43	Rob Sygar	RB	5-11	174	19	0	So.	Niles, Ohio
44	Russ Clark	LB	6-0	188	18	0	Fr.	Vandergrift, Pa.
45	Bill Cherry	LB	6-2	195	18	0	Fr.	Statesville, N. C.
46	Denny Salopek	DB	6-2	188	19	0	Jr.	Duquesne, Pa.
47	Jack Hall	LB	6-3	212	18	0	Fr.	Newport News, Va.
48	Bob Michael	LB	6-2	205	18	0	Fr.	Burlington, N. J.
49	Jim Henderson	DT	6-3	245	17	0	Fr.	Appollo, Pa.
50	Tom Higgins	LB	6-2	217	18	0	So.	Colonia, N. J.
51	Louis Alcamo	C	6-1	205	19	0	So.	Arnold, Md.
52	Tom Christopher	C	6-0	185	18	0	Fr.	Charlotte, N. C.
53	Justus Everett	C	6-1	214	20	1	Jr.	Salisbury, N. C.
54	Steve Hand	LB	6-1	182	18	0	So.	Waycross, Ga.
55	Danny Rhoden	LB	6-0	189	20	0	Jr.	MacClenny, Fla.
56	Joe Grasso	C	6-0	211	22	0	Sr.	Newhaven, Conn.
57	Ken Sheesley	LB	6-2	213	21	1	Sr.	Atlanta, Ga.
58	Dave Roberts	CB	6-0	184	18	0	So.	Shelby, N. C.
59	Greg Walker	LB	5-11	196	18	0	So.	Hudson, N. C.
60	Howard Bradburn	G	6-2	228	21	2	Sr.	Brevard, N. C.
61	Tom Serfass	G	6-0	238	19	0	So.	Bethlehem, Pa.
62	Bob Blanchard	G	6-2	229	21	1	Jr.	Highland Park, N. J.
63	Bill Yoest	G	6-0	243	21	2	Sr.	Pittsburgh, Pa.
64	Dan Ahern	G	5-11	210	19	0	So.	Freeport, N. Y.
65	Ronald Banther	DB	6-0	178	18	0	Fr.	Brevard, N. C.
66	Mike Daley	LB	5-11	233	20	1	Jr.	Easton, Pa.
67	Larry Shavis	DT	6-4	240	18	0	Fr.	Thomasville, N. C.
68	Ricky Knowles	LB	6-3	195	18	0	Fr.	Clinton, N. C.
69	Mike Miller	DB	5-10	172	18	0	Fr.	Easton, Pa.
70	John Goeller	DT	6-1	240	20	1	Jr.	Pittsburgh, Pa.
71	Sam Senneca	DT	6-2	255	20	1	Jr.	Nazareth, Pa.
72	Rich Lehr	T	6-2	235	22	1	Jr.	Reigelsville, Pa.
73	Doug Carter	DT	5-10	216	21	0	So.	Staunton, Va.
74	Randy Lail	DT	6-3	226	20	1	Jr.	Hudson, N. C.
75	T. J. Kennedy	T	6-4	252	20	0	Jr.	Coraopolis, Pa.
76	Frank Haywood	DT	6-5	240	20	0	Jr.	Gloucester, Va.
77	Rick Druschel	T	6-2	248	21	2	Sr.	Greensburg, Pa.
78	Allen Sitterle	T	6-4	262	21	2	Sr.	Pittsburgh, Pa.
79	Dan Meier	DT	6-1	234	18	0	So.	Levittown, Pa.
80	Bobby Thalman	TE	6-2	205	20	0	Jr.	Lexington, Va.
81	Harvey Willis	TE	6-0	210	21	2	Sr.	Danville, Va.
82	Mark Wilks	DE	5-11	200	22	2	Sr.	Chesapeake, Ohio
83	Mike Adamczyk	DE	6-3	193	22	1	Sr.	Evans City, Pa.
84	Brian Krueger	DE	6-2	208	22	2	Sr.	Johnson City, Tenn.
85	Craig Xander	DE	6-2	205	19	0	So.	Phillipsburg, N. J.
86	Bo Thompson	DE	6-2	185	21	0	Sr.	Vienna, Va.
87	Pat Hovance	TE	6-0	183	19	1	So.	Warren, Ohio
88	B. J. Lyttle	TE	6-4	220	19	0	So.	Glen Cove, N. Y.
89	Glenn Genis	DE	6-4	210	18	0	So.	Pittsburgh, Pa.



Mike Devine



Rick Druschel



Justus Everett



Stan Fritts



George Gantt



John Gargano



Memorial Bell Tower, North Carolina State University, Raleigh



John Goeller



Jack Hall



Mike Hardy



Roland Hooks



Pat Hovance



Brian Krueger



Dan Meier



Bob Pilz



Eddie Poole

VINCE'S TIGER OF THE WEEK

Citadel	<u>Mike Buckner</u>	N. C. State
Georgia	<u>Ken Pengitore</u>	Wake Forest
Georgia Tech	<u>Jay Washington</u>	North Carolina
Texas A&M	<u>Jim Ness</u>	Maryland
Virginia	<u>Jim Lanzendoen</u>	South Carolina
Duke	<u>The Team</u>	

After each game the Clemson Coaching Staff will select the TIGER of the Week for his outstanding play, then at the end of the season, the entire group will be guests of Vince one evening at the Forum.

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Sam Senneca



Ron Sewell



Bruce Shaw



Ken Sheesley



Kirby Shimp



Allen Sitterle



Ralph Stringer



Mike Stultz



Rob Sygar



Allen White



Harvey Willis



Harrelson Hall, N. C. State



Craig Xander



Bill Yoest



Charley Young

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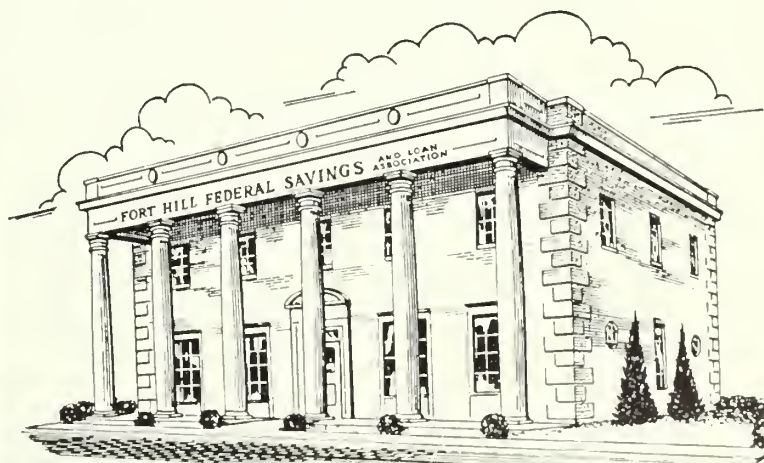
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CERTIFICATE

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3 YEAR
CERTIFICATE

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Clemson

Alumni Association



This organization

of Clemson alumni exists for only two purposes: to serve Clemson University and its students and to serve Clemson alumni. It does the second by providing an organization, records, programs and publications through which the alumni may stay abreast of the progress of their University and of their own personal, civic and professional development. It does the first by sponsoring the Clemson Alumni Loyalty Fund, dedicated to furthering the student welfare and educational mission of the University.

Summed up

Clemson's overall educational capability has been enhanced by some \$3.3 million since the Loyalty Fund began in 1956. By and large, this has accrued to the benefit of Clemson students. To this end, I invite every Clemson alumnus and alumna to make a gift to Clemson each year through the Loyalty Fund. The only direct beneficiary is Clemson University and her students and alumni by reflection. This year's fund ends December 31. If you have not yet made your 1973 gift, please do so now/Lawrence V. Starkey '56, National Alumni President.

Thomas G. Clemson

Associates



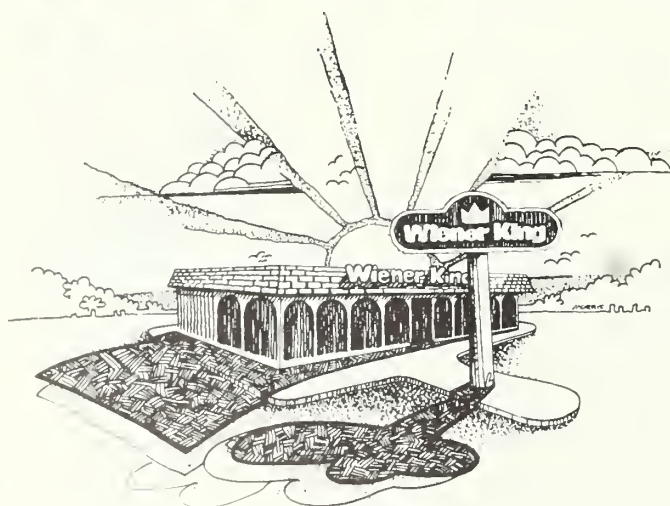
The National Council of the Clemson Alumni Association has recently established the Thomas Green Clemson Associates program to recognize those alumni who make significant gifts to Clemson through the Alumni Loyalty Fund over long periods of time. Each Associate of the founder of Clemson University who has been an Associate for five or more years receives a handsome personalized plaque that signifies his or her years of giving at this level in increments of five years. The bottom of the plaque provides space for five, ten, fifteen, twenty, and twenty-five year medallions. There are today 311 Thomas Green Clemson Associates who are making Loyalty Fund gifts of \$100 or more each year.

The plaque reads:

"... Name ... joins the founder of Clemson University in a dedication to higher education by making an annual gift of significance to the Clemson Alumni Loyalty Fund." Each alumnus and alumna is invited to become a Thomas Green Clemson Associate by making the desire known to the Alumni Association.



Take a dog to lunch today



Wiener King

At the Oconee Square shopping center
in Seneca and U.S. 123 in Clemson.



DEFENSIVE BACKS

The amphitheater provides the background for Clemson's defensive backs: 1-Peanut Martin, 2-Marion Reeves, 3-Steve Kelley, 4-Jack Hughes, 5-Tom Marsik, 6-Dennis Smith, 7-Walt Credle, 8-Ricky Brown, 9-Leon Fabers, 10-Mike Gaddis, 11-Jim Ness, 12-Eddie Crawford, 13-Lynn Carson, 14-Tony Rouse, 15-Mark Lee.

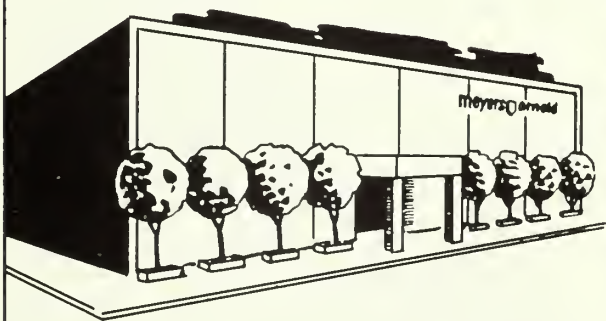
10 LARGEST HOME CROWDS

Attendance	Season	Opponent	Date	Score
53,247	1968	South Carolina	Nov. 22	3-7
51,608	1972	South Carolina	Nov. 25	7-6
50,949	1970	South Carolina	Nov. 21	32-38
49,596	1967	Alabama	Oct. 28	10-13
47,237	1966	South Carolina	Nov. 26	35-10
47,074	1967	N.C. State	Nov. 18	14-6
46,362	1967	Georgia	Sept. 30	17-24
45,080	1960	South Carolina	Nov. 12	12-2
45,000	1962	South Carolina	Nov. 24	20-17
43,035	1969	Georgia	Sept. 27	0-30

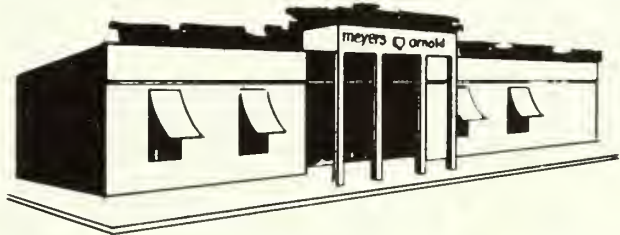
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RECEIVERS

Clemson's receiving corps finds one of the campus pets waiting outside—you guessed it—Schilleter Dining Hall. 1-Craig Brantley, 2-Gordy Bengel, 3-Jerry Davis, 4-Jim Lanzendoen, 5-D. T. Thomas, 6-Karl Andreas, 7-Bennie Cunningham, 8-Bob Shell, 9-David Sasser, 10-Rickey Bustle.

CLEMSON'S 15 LARGEST CROWDS

Attendance	Season	Opponent	Site	Score
82,000	1958	Louisiana State	Sugar Bowl	0-7
72,552	1956	Colorado	Orange Bowl	21-27
65,000	1950	Miami (Fla.)	Orange Bowl	15-14
62,034	1963	Oklahoma	Norman	14-31
61,826	1972	Oklahoma	Norman	3-52
59,588	1967	Georgia Tech	Atlanta	0-10
59,008	1968	Georgia	Athens	13-31
57,242	1971	South Carolina	Columbia	17-7
56,116	1968	Georgia Tech	Atlanta	21-24
55,682	1970	Georgia	Athens	0-38
55,000	1959	Texas Christian	Bluebonnet Bowl	23-7
55,000	1971	Auburn	Auburn	13-35
53,247	1968	South Carolina	Clemson	3-7
51,608	1972	South Carolina	Clemson	7-6
51,140	1962	Georgia Tech	Atlanta	9-26

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ShuR-TufF Plastic Parts

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Group, Inc.

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Non-Woven, Web Monitoring, Warp Beam and
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Batson
Machinery,
Inc.

"The Capital Expenditures Division"

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"The Accessories Division"

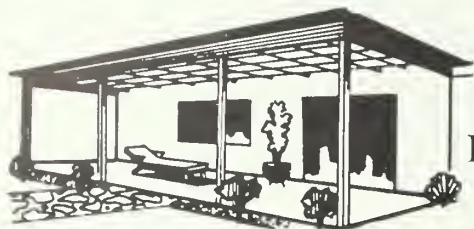
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Tenter Guides
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Core Chucks
Metal Detectors
Process Rolls
Slitting and Rewinding Equipment
Tenter Pin Plates
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Batson "Litter Gitter" Suction Cleaner
Renewal Parts and Supplies
Installation and Service

Louis P. Batson
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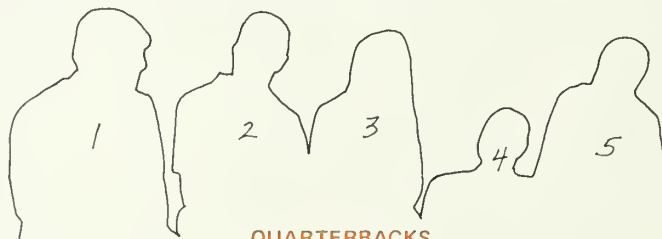
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CENTERS

One of Clemson's most beautiful buildings, both inside and out, is the Robert Muldrow Cooper Library. Talking things over in the lobby of the library are the Tigers' centers. 1-Ron Bowlan, 2-Bill Dobbins, 3-Wayne Neely, 4-John Bolubasz.

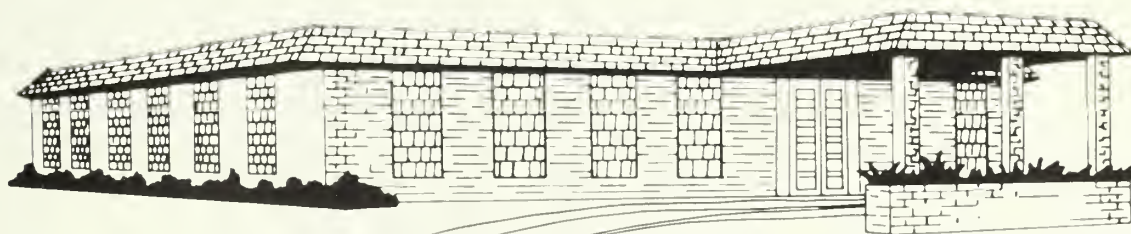


QUARTERBACKS

The Clemson quarterbacks found a pretty girl to pose with them on the wall outside their dormitory, Mauldin Hall. 1-Ken Pengitore, 2-Lawson Holland, 3-Miss Judy Jaynes, Clemson's 1972 homecoming queen, 4-Mike O'Cain, 5-Mark Fellers.



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OFFENSIVE TACKLES

Some of the Clemson offensive tackles find the reflection pool in front of the Robert Cooper Library cooling and refreshing compared to the practice field. 1-Maret Cobb, 2-Curt Buttermore, 3-Frank Bethea, 4-Ford Gibson, 5-Henry Allen, 6-George Hyams.



OFFENSIVE GUARDS

Steps at Fike Field House, which formerly housed the Tiger dressing rooms, afford a stop for Clemson's offensive guards. 1-Ed Homonoff, 2-Guy Lombardo, 3-Al Murray, 4-Ken Peeples, 5-Art Brisacher, 6-Neal Jetton.



SPECIALISTS

Bowman Field has been identified with Clemson almost as long as the school has existed. The Tiger punters and placekickers talk over business at the two cannons which rest at the top of the parade grounds. 1-Ricky Brown, 2-Bob Burgess, 3-Jim Shuler, 4-Mark Freeberg, 5-Chris Chappell, 6-Bob Becker, 7-Mitch Tyner.



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Mark Gregory
Drum Major
Tony Stapleton
Sergeant Major
Carl Renner
Supply Officer
Tony Hunter
Librarian
Frank Adams
Flag Corps Captain
Linda Stoddard
Mag Harrison
Tigerette Captain



Tigerettes Caroline Bagnol, Jean McComb, Brenda Huff, Mag Harrison, Linda Stoddard, Gaie Collins, Kandy Anderson, and Mary Jane Lord.



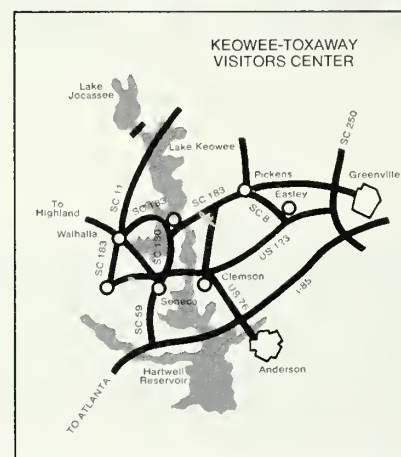
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RUNNING BACKS

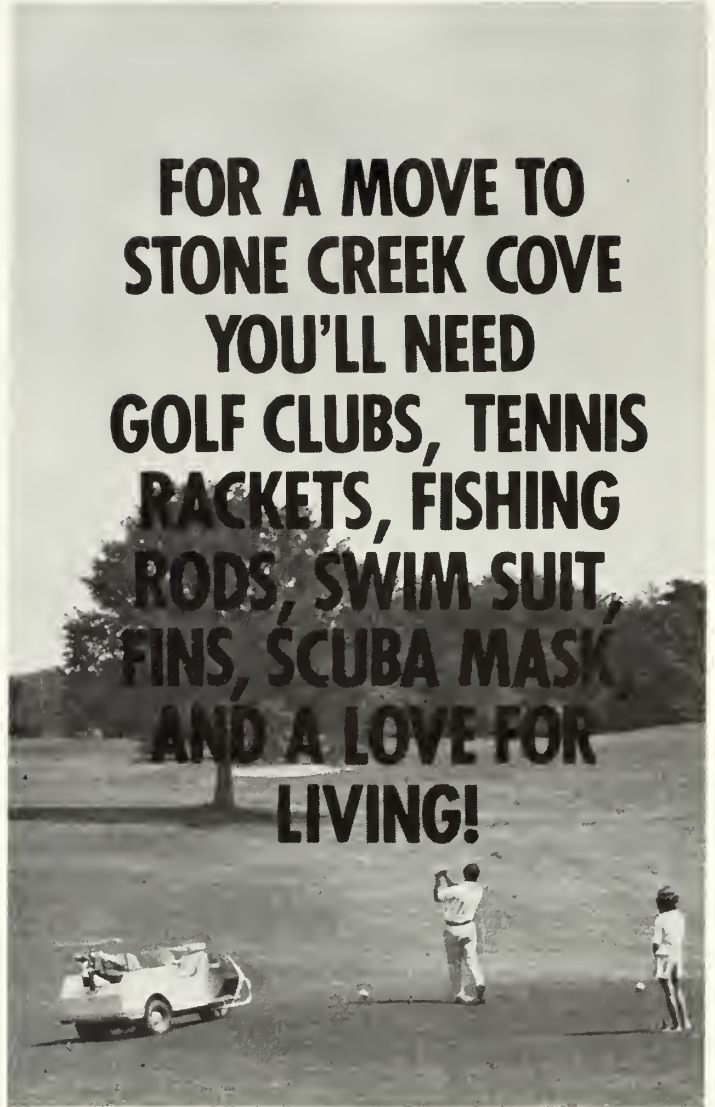
Tillman Hall is the best known landmark at Clemson. And coach Red Parker hopes that these running backs, who were caught on the steps of the former administrative building, will become best known by the end of the season. 1-Leon Hope, 2-Toni Mathews, 3-Smiley Sanders, 4-Chuck Huntley, 5-George Bosse, 6-Marvin Anderson, 7-Jerry Belue, 8-O. J. Tyler.



DEFENSIVE TACKLES

The Thomas G. Clemson statue, long a fixture in front of Tillman Hall, is literally mobbed by Clemson's defensive tackles. 1-David LeBel, 2-G. G. Galloway, 3-Tim Blackwelder, 4-Bruce Decock, 5-Bill Lynch, 6-Church Gordon, 7-Dan McBride, 8-Harry Fulwood.

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Two wooden rocking chairs are displayed against a light blue background. The chair on the left has a black seat and backrest. It features a black cushion with an orange tiger head logo and the text "FIGHTING TIGERS COU". A small orange paw print is on the backrest. The chair on the right has a white seat and backrest. It features a white cushion with an orange tiger head logo and the text "FIGHTING TIGERS COU". A small orange paw print is on the backrest. Both chairs have orange and black tiger-themed decorations.



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LINEBACKERS & MIDDLE GUARDS

If Clemson's linebackers and middle guards can be as immovable as the rocks they are sitting on, opposing runners will have a hard time up the middle this fall. 1-Leighton Cabbage, 2-Bobby Sharpe, 3-Mike Buckner, 4-Willie Anderson, 5-Frank Wise, 6-Mac Kanabe, 7-Tommy Ducworth, 8-Mike Webber, 9-Jimmy Williamson, 10-Dennis Silver, 11-Steve Killian, 12-Mark Boynton.



DEFENSIVE ENDS

Stately Calhoun Mansion, which has been restored and is toured by thousands each year, provides a picturesque setting for Clemson's defensive ends. 1-Guy Gehret, 2-David Hughston, 3-Stan Greenawalt, 4-Jeff Stocks, 5-C. H. Ducworth, 6-Ronnie Huffman, 7-Bob Jones, 8-Tom Boozer.

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This Is The Behind-The-Scenes Crew

Many hours of preparation are necessary to get a football team ready to take the field, be it for practice or a game. And this group of Clemson managers plays a big part in the unsung and unglamorous aspect of the game. Kneeling, left to right, Hal Hamby, Jack Locklair, John Lord, Barry Drake and Pete Anderson. Standing, left to right, Dick Robbins, Joe Sutton, Len Gough, Pat Whitesides and David Wessinger.

1973 Atlantic Coast Conference Football Schedule

N — NIGHT GAME

DATES	CLEMSON	DUKE	MARYLAND	N. CAROLINA	N. C. STATE	VIRGINIA	WAKE FOREST
September 8	Clemson 14 Citadel 12				N. C. State 57 East Car. 8	Virginia 16 V. M. I. 0	
September 15		Tennessee 21 Duke 17	West Va. 20 Maryland 13	No. Car. 34 Wm. & Mary 27	N. C. State 43 Virginia 23	N. C. State 43 Virginia 23	W. Forest 9 F. S. U. 7
September 22	Georgia 31 Clemson 14	Duke 23 Washington 21	Maryland 23 No. Car. 3	Maryland 23 No. Car. 3	Nebraska 31 N. C. State 14	Missouri 31 Virginia 7	Wm. & Mary 15 W. Forest 14
September 29	Ga. Tech 29 Clemson 21	Virginia 7 Duke 3	Maryland 31 Villanova 3	Missouri 27 No. Car. 14	Georgia 31 N. C. State 12	Virginia 7 Duke 3	Richmond 41 W. Forest 0
October 6	Texas A & M 30 Clemson 15	Purdue 27 Duke 7	Maryland 38 Syracuse 0	N.C. State 28 No. Car. 26	N.C. State 28 No. Car. 26	Vanderbilt 39 Virginia 22	Texas 41 W. Forest 0
October 13	Clemson 32 Virginia 27	Tulane 24 Duke 17	N.C. State 24 Maryland 22	No. Car. 16 Kentucky 10	N.C. State 24 Maryland 22	Clemson 32 Virginia 27	S. Carolina 28 W. Forest 12
October 20	Clemson 24 Duke 8	Clemson 24 Duke 8	Maryland 37 Wake Forest 0	Tulane 16 No. Car. 0		Va. Tech. 27 Virginia 15	Maryland 37 Wake Forest 0
October 27	N. C. State Home	Maryland (Norfolk, Va.)	Duke (Norfolk, Va.)	E. Carolina Home	Clemson Away	Wake Forest Home	Virginia Away
November 3	Wake Forest Home	Ga. Tech Away	Penn State Home	Virginia Away	S. Carolina Away (N)	N. Carolina Home	Clemson Away
November 10	N. Carolina Away	Wake Forest Away	Virginia Home	Clemson Home	Penn State Away	Maryland Away	Duke Home
November 17	Maryland Home	N. C. State Home	Clemson Away	Wake Forest Home	Duke Away	W. Virginia Away	N. Carolina Away
November 24	S. Carolina Away	N. Carolina Home	Tulane Home	Duke Away	Wake Forest Home		N. C. State Away

Spare Parts for the Body

BIOENGINEERING AT CLEMSON UNIVERSITY

*By Ross Cornwell
Assistant Director/Public Relations*

In 1682 a Russian surgeon transplanted a piece of dog skull into a defect in a soldier's skull—modern history's first recorded mention of the surgical treatment of a bone defect.

The church considered this monumental achievement "un-Christian," and the surgeon was forced to remove the implant under threat of excommunication.

Medical research has come a long way in the past three centuries. In 1973 excommunication is no longer a problem for a group of researchers in Clemson University's programs in bioengineering, a "new frontier" area of study under exploration by biological, materials, engineering, and medical scientists.

But they are still concerned about rejection of another sort—the kind that results when an artificial (or prosthetic) device implanted into the human body fails to work properly and the body marshals its considerable defense forces to reject it.

These researchers' primary mission is to learn more about how to design, manufacture, and implant artificial "biomaterial" devices that can restore bodily function destroyed by disease, injury, or birth defect. A basic part of that mission is to impart that knowledge to their students, the next generation of biomaterials researchers.

The devices under study at Clemson run the gamut from artificial teeth, hip joint replacements, and heart valves, to artificial ligaments for the knee.

The field of prosthetics, the replacement of body parts by

mechanisms, is actually much older than might be expected, although the word "biomaterial" itself was not to be found in standard dictionaries as late as six years ago. The ancient Egyptians used crude gold dental fillings, while the Etruscans made banded bridges and the Phoenicians made wired reconstructions in attempts to replace missing teeth. The artificial leg or the replacement of a missing hand by a hook has been practiced as long as amputation itself. Though reliable false teeth are relatively new (George Washington wore some rather crude ones), in earlier times animal teeth or teeth carved from wood or ivory were substituted for natural teeth.

The present use and immediate need for new biomaterials and prosthetic devices are also much more widespread than one might suspect.

It is a rare American who doesn't have at least one dental filling. There are already more than 13,000 cardiac patients in the United States, including a Supreme Court Justice, who are alive only because they carry a tiny pacemaker around in their bodies to activate their hearts. More than 10,000 other Americans are equipped with artificial heart valves made of stainless steel and Dacron mesh.

Over 100,000 Americans are disabled each year by crippling arthritis, half the citizens of the U. S. over age 50 are without natural teeth, and in South Carolina alone more than 3,000 plastic surgery operations are performed annually.

The need for "spare parts" for the body is obvious. The biomaterials of which these remarkable medical advancements are being constructed and are being investigated at Clemson aren't the old pieces of dog skull or carved wood.

These engineers and surgeons are collaborating to develop artificial devices made of metallic alloys (stainless steel, vitallium, tantalum), plastics (silicone rubber, polyethylene, Teflon), certain ceramics, some forms of pyrolytic carbon (a graphite-like carbon crystal), and other unique substances.

Clemson's 1973 international symposium on biomaterials brought some 350 of the world's top surgeons, dentists, and biological and materials scientists from 34 states and 11 foreign countries to the campus to pool their discoveries and ideas. The annual symposia, which have gained immense respect throughout the Western world, have in the past covered subjects like implant dentistry, use of ceramics in surgical implants, research techniques in biomaterials evaluation, and attachment of artificial devices to the body's muscles and tissues. Clemson University has become a leader in one of science's most exciting new challenges.

Every day Clemson bioengineers face the unknown, the imponderable, and one of the most hostile environments ever known to man: his own body. Their goal is more than mere mastery of technology. It is nothing less than an all-out battle against physical human misery and suffering.



Top left: This artificial knee joint, made of plastic and metallic components, has been transplanted into 35 patients suffering crippling arthritis at the George Washington University Medical Center. The device was one of many reported on at Clemson's 1973 biomaterials symposium.

Top right: This artificial heart valve was developed by famous heart surgeon Dr. Christian Barnard and donated to Clemson bioengineers for study.

Right: These are three samples of the kinds of "spare parts" for the body being studied at Clemson University: a metallic hip joint shown in position inside the thigh bone; two artificial tooth roots made of a ceramic developed by Clemson engineers; a Dacron mesh aorta.

Lower right: Surgeons team with engineers at Clemson in research seeking materials for "spare parts" which the body will not reject.



CLEMSON 1973-74 BASKETBALL

It could be the beginning of a new era for Clemson basketball as Bates Locke enters his fourth season at the Tiger helm.

Locke's cagers have improved each year under his guidance and the Clemson mentor figures his 1973-74 unit will be his best yet, although the Tigers operate out of the nation's toughest basketball league — the Atlantic Coast Conference.

Two starters return from the 72-73 squad in the form of 6-2 Van Gregg (13.6) and 6-6 Jeff Reisinger (11.7). The southpaw shooting Gregg was tabbed by Locke as "the best shooter I have ever coached," whereas Reisinger was the only Tiger to start in all 26 games last season.

Also back from a year ago are 6-0 Terrell Suit (7.1) and 6-9 Wayne Croft (4.8) to fight for a starting role.

Locke will inherit the services of his top six players from the jayvee unit headed by 6-0 Bruce Harman (20.2) and 6-8 Marty Patterson (16.3). In addition, 6-0 Tim Capehart (15.6), 6-9 Charlie Rogers (15.2), 6-2 David Dobson (11.8) and 6-9 Scott Conant (11.6) will all have a shot at one of the top spots.

Jo Jo Bethea, a 6-1 backcourt ace, chipped in 16.4 points per game for Anderson Junior College last season, and together with his defensive ability, could find himself in a starting role.

Freshman signees who might figure in with the varsity include 6-3 Donald Boop of Orrville, O.; 6-8 David Brown of York, Pa.; 6-6 Andy Butenko of Sharon, Pa.; 6-2 John Franken of Colonia, N.J., and 7-1 Wayne Rollins of Cordele, Ga.

Two years ago BASKETBALL NEWS rated Clemson's schedule as the toughest cage slate in the nation and a year ago it was ranked as the sixth toughest. And Locke's cagers promise even more exciting play for the 1973-74 campaign.



The Tiger cage staff includes head coach Bates Locke, kneeling, and his assistants, standing, from left to right, Cliff Malpass, Jive Brown, George Hill and Bill Clendinen.

1973-74 TIGER BASKETBALL SCHEDULE

NOV. 30—	IP TAY INVITATIONAL	HOME
DEC. 1	(Clemson, Auburn, Jacksonville & St. John's)	
Dec. 5	Purdue	Away
Dec. 7-8	Steel Bowl	Away
	(Clemson, Duquesne, Florida State & Pittsburgh)	
Dec. 15	GEORGIA TECH	HOME
Dec. 18	LOUISVILLE	HOME
Dec. 28-29	Poinsettia Classic	Away
	(Clemson, Furman, Delaware & Xavier, O.)	
Jan. 5	*Maryland	Away
Jan. 9	*NORTH CAROLINA	HOME
Jan. 12	*N. C. State	Away
Jan. 16	*Duke	Away
Jan. 19	*Wake Forest	Away
Jan. 23	FURMAN	HOME
Jan. 26	*VIRGINIA	HOME
Jan. 30	THE CITADEL	HOME
Feb. 2	*North Carolina	Away
Feb. 6	EAST TENNESSEE STATE	HOME
Feb. 13	*WAKE FOREST	HOME
Feb. 16	*MARYLAND	HOME
Feb. 20	*Virginia	Away
Feb. 23	*N. C. STATE	HOME
Feb. 27	*DUKE	HOME
Mar. 2	Georgia Tech	Away
Mar. 7-9	ACC Tournament	Away
	*Denotes ACC Game	



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IPTAY = SUCCESS

The 1972-73 **IPTAY** year closed a week ago yesterday, and for the second straight year, over a half million dollars were contributed by a group of people, who has to be the staunchest athletics supporters in the world.

For the ninth straight year **IPTAY** funds increased over the previous 12 months.

Contributions totalled over \$579,000, which was 102 per cent of a goal set at \$565,000, and was \$52,000 more than the 1971-72 **IPTAY** year.

Not only was the goal set by the officers and directors met, but something new was added — the Clemson **IPTAY** Scholarship Fund — for the purpose of receiving contributions for perpetual and life memberships in each membership category.

The first to give funds for the endowed scholarship was Mr. and Mrs. C. Guy Gunter of Greenville. The Gunter gift was by far the largest ever received by **IPTAY** in its history and the income from this fund will be sufficient for one full athletic scholarship each year.

Twenty-four counties in the State of South Carolina as well as the states of North Carolina and Georgia exceeded their goals.

Leading the way in the state was Jasper County with 241 per cent. Falling behind Jasper and their percentages were Cherokee (134), Beaufort (129), Edgefield (121), Lexington (118), Fairfield (116), Clarendon (114), Horry (113), Oconee (110) and Allendale (109).

Greenville County which raised 101 per cent of its goal, had the largest contributions of any county in the state with \$83,010. Next in total contributions were Richland (\$56,130), Pickens (\$42,340), Anderson (\$37,400), Spartanburg (\$32,420), Florence (\$15,760), Greenwood (\$15,560), Lexington (\$13,490), York (\$12,990) and Orangeburg (\$12,980).

The 1974 goal has been set at \$600,000, with the **IPTAY** year running from last Saturday to next August 31st.

Organized in 1934, **IPTAY** (I Pay Twenty A Year) functions with just one purpose in mind — to finance athletic scholarships for Clemson's 11 intercollegiate sports. The club operates today just as it did 40 years ago. Not one single penny contributed to **IPTAY** during these four decades has been used for anything other than scholarships. All contributions made to **IPTAY** are tax deductible.

The beginning of **IPTAY** was the biggest shot in the arm ever received by Clemson athletics. Thousands of student-athletes have received an education through this organization which might not have been possible otherwise.

But no one, not even the late Dr. Ruppert H. (Rube) Fike, its founder, imagined that **IPTAY** would expand in the manner as it stands today.

IPTAY members are winners today and they are helping make winners for tomorrow.



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